SAFETY DATA SHEET



Avida Duo DNA and Methyl Reagent Kit with 1-192 Index Primer Pairs for ILM, 96 Reactions, Part Number G9440A

Section 1. Identification

1.1 Product identifier

Product name : Avida Duo DNA and Methyl Reagent Kit with 1-192 Index Primer Pairs for ILM, 96

Reactions, Part Number G9440A

Part no. (chemical kit) : G9440A

Part no. : Avida DNA and Duo Reagent Box 2, 96 5282-0142/5282-0150

Reactions/Avida Methyl and Duo Reagent

Box 3, 96 Reactions Nuclease-Free Water 5271-0134 Avida Duo Methyl Reagent Box 1, 96 5282-0152

Reactions End Prep Buffer 5271-0121 End Prep Enzyme 5271-0122 Ligation Buffer 5271-0123 Ligation Enzyme 5271-0124 Adapter for ILM 5271-0139 Hyb Blocker 5271-0126 Hyb Buffer 5271-0127 Hyb Enhancer 5271-0128 Soft Conversion Reagent A 5271-0137 2X Amplification Mastermix 5271-0129

2X Methyl Amplification Mastermix 5271-0138 Avida DNA and Duo Reagent Box 2, 96 5282-0142

Reactions

Library Wash Buffer 5271-0130 Hyb Wash Buffer 1 5271-0131 Hyb Wash Buffer 2 5271-0132 Resuspension Buffer 5271-0133 Avida Methyl and Duo Reagent Box 3, 96 5282-0150

Reactions

Soft Conversion Reagent B 5271-0113 Soft Conversion Binding Beads 5271-0141 5X Soft Conversion Wash Buffer 5271-0142 Soft Conversion Elution Buffer 5271-0143 Soft Conversion Repair Solution 5271-0144 Avida Duo Beads Box, 96 Reactions 5282-0154 Library Binding Beads 5271-0135 Capture Beads 5271-0136 Avida Index Primer Pairs 1-192 for ILM 5280-0057 Avida Index Primer Pairs 1-96 for ILM 5274-0079

Validation date : 4/8/2024

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Analytical reagent.

For research use only.

Avida Index Primer Pairs 97-192 for ILM

Nuclease-Free Water 5.76 ml (96 reactions) End Prep Buffer 0.877 ml (96 reactions) End Prep Enzyme 0.351 ml (96 reactions) 2.953 ml (96 reactions) Ligation Buffer Ligation Enzyme 0.695 ml (96 reactions) Adapter for ILM 0.588 ml (96 reactions) Hyb Blocker 0.349 ml (96 reactions) Hyb Buffer 5.524 ml (96 reactions)

5274-0080

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Section 1. Identification

Hyb Enhancer 0.988 ml (96 reactions) Soft Conversion Reagent A 0.387 ml (96 reactions) 2X Amplification Mastermix 2.940 ml (96 reactions) 2X Methyl Amplification Mastermix 2.940 ml (96 reactions) Library Wash Buffer 2 x 21.12 ml (96 reactions) Hyb Wash Buffer 1 2 x 31.680 ml (96 reactions) Hyb Wash Buffer 2 2 x 18.24 ml (96 reactions) 2.364 ml (96 reactions) Resuspension Buffer

Soft Conversion Reagent B 6 x 0.750 ml Soft Conversion Binding Beads 17.280 ml (96 reactions)

5X Soft Conversion Wash Buffer
Soft Conversion Elution Buffer
Soft Conversion Repair Solution
Library Binding Beads
Capture Beads

8 ml (96 reactions)
0.588 ml (96 reactions)
10.083 ml (96 reactions)
2 x 0.944 ml (96 reactions)

Avida Index Primer Pairs 1-96 for ILM 96 x 0.005 ml Avida Index Primer Pairs 97-192 for ILM 96 x 0.005 ml

Uses advised against: Not for use in diagnostic procedures.

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer: Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : Nuclease-Free Water While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

End Prep Buffer This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200). End Prep Enzyme This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200).

Ligation Buffer While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Ligation Enzyme This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the

Adapter for ILM While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Hyb Blocker While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR

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1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Hyb Buffer This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA

Hyb Enhancer This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Soft Conversion Reagent A This material is considered hazardous by the OSHA

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

2X Methyl Amplification

2X Amplification Mastermix

Mastermix

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Library Wash Buffer While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Hyb Wash Buffer 1 While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Hyb Wash Buffer 2 While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Resuspension Buffer While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Soft Conversion Reagent B This material is considered hazardous by the OSHA

Soft Conversion Binding

Beads

5X Soft Conversion Wash

Buffer

Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Soft Conversion Elution

Buffer

Soft Conversion Repair

Solution

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR

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1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Library Binding Beads While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Capture Beads While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Avida Index Primer Pairs

1-96 for ILM

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Avida Index Primer Pairs

97-192 for ILM

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Classification of the substance or mixture

End Prep Buffer

H412 AQUATIC HAZARD (LONG-TERM) - Category 3

End Prep Enzyme

H320 EYE IRRITATION - Category 2B

Ligation Enzyme

H320 EYE IRRITATION - Category 2B

Hyb Buffer

H302 ACUTE TOXICITY (oral) - Category 4
H315 SKIN IRRITATION - Category 2

H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

H412 AQUATIC HAZARD (LONG-TERM) - Category 3

Hyb Enhancer

H351 CARCINOGENICITY - Category 2

H360 TOXIC TO REPRODUCTION - Category 1B

H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Soft Conversion Reagent A

H227 FLAMMABLE LIQUIDS - Category 4 H319 EYE IRRITATION - Category 2A

H360 TOXIC TO REPRODUCTION - Category 1B

Soft Conversion Reagent B

H319 EYE IRRITATION - Category 2A

Soft Conversion Binding Beads

H226 FLAMMABLE LIQUIDS - Category 3

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H314 SKIN CORROSION - Category 1C
H318 SERIOUS EYE DAMAGE - Category 1
H400 AQUATIC HAZARD (ACUTE) - Category 1
H411 AQUATIC HAZARD (LONG-TERM) - Category 2

Soft Conversion Elution Buffer

H314 SKIN CORROSION - Category 1
H318 SERIOUS EYE DAMAGE - Category 1

Ingredients of unknown

toxicity

: Hyb Buffer Percentage of the mixture consisting of ingredient

(s) of unknown acute oral toxicity: 1 - 10%

Hyb Buffer Percentage of the mixture consisting of ingredient

(s) of unknown hazards to the aquatic environment:

3.4%

2X Methyl Amplification Mastermix Percentage of the mixture consisting of ingredient

(s) of unknown hazards to the aquatic environment:

10%

Soft Conversion Reagent B Percentage of the mixture consisting of ingredient

(s) of unknown hazards to the aquatic environment:

70%

2.2 GHS label elements

Hazard pictograms : Hyb Buffer





Hyb Enhancer



Soft Conversion Reagent A





Soft Conversion Reagent B



Soft Conversion Binding Beads







Soft Conversion Elution Buffer



Signal word

 Nuclease-Free Water End Prep Buffer
 End Prep Enzyme
 Ligation Buffer
 Ligation Enzyme
 Adapter for ILM
 Hyb Blocker No signal word. No signal word. Warning No signal word. Warning

for ILM No signal word. cker No signal word.

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Hyb Buffer Danger Hyb Enhancer Danger Danger Soft Conversion Reagent A No signal word. 2X Amplification Mastermix 2X Methyl Amplification Mastermix No signal word. No signal word. Library Wash Buffer Hyb Wash Buffer 1 No signal word. Hyb Wash Buffer 2 No signal word. Resuspension Buffer No signal word. Soft Conversion Reagent B Warning Soft Conversion Binding Beads Danger 5X Soft Conversion Wash Buffer No signal word. Soft Conversion Elution Buffer Danger Soft Conversion Repair Solution No signal word. Library Binding Beads No signal word. Capture Beads No signal word. Avida Index Primer Pairs 1-96 for No signal word. Avida Index Primer Pairs 97-192 No signal word. for ILM

Nuclease-Free Water No known significant effects or critical hazards. H412 - Harmful to aquatic life with long lasting End Prep Buffer

effects.

H320 - Causes eye irritation. End Prep Enzyme

Ligation Buffer No known significant effects or critical hazards.

Ligation Enzyme H320 - Causes eye irritation.

Adapter for ILM No known significant effects or critical hazards. Hyb Blocker No known significant effects or critical hazards. Hyb Buffer

H302 - Harmful if swallowed. H315 - Causes skin irritation.

H370 - Causes damage to organs. (central nervous

system (CNS))

H412 - Harmful to aquatic life with long lasting

effects.

Hyb Enhancer H351 - Suspected of causing cancer.

> H360 - May damage fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. (blood)

H227 - Combustible liquid. Soft Conversion Reagent A

H319 - Causes serious eye irritation.

H360 - May damage fertility or the unborn child. No known significant effects or critical hazards. 2X Amplification Mastermix 2X Methyl Amplification Mastermix No known significant effects or critical hazards. Library Wash Buffer No known significant effects or critical hazards. Hyb Wash Buffer 1 No known significant effects or critical hazards.

Hyb Wash Buffer 2 No known significant effects or critical hazards. Resuspension Buffer No known significant effects or critical hazards. H319 - Causes serious eye irritation. Soft Conversion Reagent B

H226 - Flammable liquid and vapor. Soft Conversion Binding Beads

H314 - Causes severe skin burns and eye damage.

H400 - Very toxic to aquatic life.

H411 - Toxic to aquatic life with long lasting effects. 5X Soft Conversion Wash Buffer No known significant effects or critical hazards. Soft Conversion Elution Buffer H314 - Causes severe skin burns and eye damage. Soft Conversion Repair Solution No known significant effects or critical hazards.

Library Binding Beads No known significant effects or critical hazards. Capture Beads No known significant effects or critical hazards.

Avida Index Primer Pairs 1-96 for No known significant effects or critical hazards.

Avida Index Primer Pairs 97-192 No known significant effects or critical hazards.

Hazard statements

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for ILM

Precautionary statements

Prevention

: Nuclease-Free Water Not applicable.

End Prep Buffer P273 - Avoid release to the environment.

End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hyb Blocker Not applicable.

P280 - Wear protective gloves. Hyb Buffer

P273 - Avoid release to the environment.

P260 - Do not breathe vapor.

P270 - Do not eat, drink or smoke when using this

product.

P264 - Wash thoroughly after handling. P201 - Obtain special instructions before use.

Hyb Enhancer P280 - Wear protective gloves, protective clothing

> and eye or face protection. P260 - Do not breathe vapor.

Soft Conversion Reagent A P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing

and eye or face protection.

P210 - Keep away from flames and hot surfaces.

No smoking.

Not applicable. 2X Amplification Mastermix 2X Methyl Amplification Mastermix Not applicable.

Not applicable. Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Resuspension Buffer Not applicable.

Soft Conversion Reagent B P280 - Wear eye or face protection.

Soft Conversion Binding Beads P280 - Wear protective gloves, protective clothing

and eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

P241 - Use explosion-proof electrical, ventilating or

lighting equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges. P273 - Avoid release to the environment.

Not applicable.

5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer

P280 - Wear protective gloves, protective clothing

and eye or face protection.

Soft Conversion Repair Solution

Library Binding Beads

Not applicable.

Capture Beads Not applicable.

Not applicable.

Not applicable.

Avida Index Primer Pairs 1-96 for ILM

Avida Index Primer Pairs 97-192

for ILM

Not applicable.

Response

Nuclease-Free Water Not applicable. End Prep Buffer Not applicable.

End Prep Enzyme P305 + P351 + P338 - IF IN EYES: Rinse

> cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

P337 + P313 - If eye irritation persists: Get medical

advice or attention.

Not applicable. Ligation Buffer

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Ligation Enzyme P305 + P351 + P338 - IF IN EYES: Rinse

> cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337 + P313 - If eye irritation persists: Get medical

advice or attention.

Adapter for ILM Not applicable. Hyb Blocker Not applicable.

Hyb Buffer P308 + P311 - IF exposed: Call a POISON

CENTER or doctor.

P362 + P364 - Take off contaminated clothing and

wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of

water.

P308 + P313 - IF exposed or concerned: Get Hyb Enhancer

medical advice or attention.

P308 + P313 - IF exposed or concerned: Get Soft Conversion Reagent A

medical advice or attention.

P305 + P351 + P338 - IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

P337 + P313 - If eye irritation persists: Get medical

advice or attention. Not applicable.

2X Amplification Mastermix 2X Methyl Amplification Mastermix

Not applicable. Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Not applicable. Hvb Wash Buffer 2 Not applicable. Resuspension Buffer

Soft Conversion Reagent B P305 + P351 + P338 - IF IN EYES: Rinse

> cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337 + P313 - If eye irritation persists: Get medical

advice or attention.

P391 - Collect spillage. Soft Conversion Binding Beads

P304 + P310 - IF INHALED: Immediately call a

POISON CENTER or doctor.

P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON

CENTER or doctor.

P363 - Wash contaminated clothing before reuse. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor.

5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer

Not applicable.

P304 + P310 - IF INHALED: Immediately call a

POISON CENTER or doctor.

P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

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Rinse skin with water. Immediately call a POISON

CENTER or doctor.

P363 - Wash contaminated clothing before reuse. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor.

Soft Conversion Repair Solution

Library Binding Beads

Not applicable. Not applicable. Capture Beads Not applicable. Avida Index Primer Pairs 1-96 for

ILM

Avida Index Primer Pairs 97-192

for ILM

Not applicable.

Not applicable.

Storage

Nuclease-Free Water Not applicable. End Prep Buffer Not applicable. Not applicable. End Prep Enzyme Not applicable. Ligation Buffer Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hyb Blocker Not applicable. Hyb Buffer Not applicable. Hyb Enhancer Not applicable.

Soft Conversion Reagent A P403 + P235 - Store in a well-ventilated place.

Keep cool.

2X Amplification Mastermix Not applicable. 2X Methyl Amplification Mastermix Not applicable.

Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Resuspension Buffer Not applicable. Soft Conversion Reagent B Not applicable.

Soft Conversion Binding Beads P403 + P235 - Store in a well-ventilated place.

> Keep cool. Not applicable.

> Not applicable.

Not applicable.

Not applicable.

Not applicable.

5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution

Library Binding Beads Capture Beads

Avida Index Primer Pairs 1-96 for

Avida Index Primer Pairs 97-192

for ILM

Not applicable.

Not applicable.

Disposal

: Nuclease-Free Water Not applicable.

End Prep Buffer P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

End Prep Enzyme Not applicable. Not applicable. Ligation Buffer Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Not applicable. Hvb Blocker

Hyb Buffer P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

P501 - Dispose of contents and container in Hyb Enhancer

accordance with all local, regional, national and

international regulations.

P501 - Dispose of contents and container in Soft Conversion Reagent A

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international regulations.

2X Amplification Mastermix Not applicable. 2X Methyl Amplification Mastermix Not applicable. Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Not applicable. Hyb Wash Buffer 2 Not applicable. Resuspension Buffer Not applicable. Soft Conversion Reagent B

P501 - Dispose of contents and container in Soft Conversion Binding Beads accordance with all local, regional, national and

international regulations.

5X Soft Conversion Wash Buffer Not applicable.

Soft Conversion Elution Buffer P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

Soft Conversion Repair Solution

Not applicable. Library Binding Beads Not applicable. Not applicable. Capture Beads

Avida Index Primer Pairs 1-96 for

Not applicable. ILM

Avida Index Primer Pairs 97-192

Not applicable.

for ILM

Supplemental label

elements

Nuclease-Free Water None known. End Prep Buffer None known. End Prep Enzyme None known. Ligation Buffer None known. Ligation Enzyme None known. Adapter for ILM None known. Hyb Blocker None known. Hyb Buffer None known. Hyb Enhancer None known. Soft Conversion Reagent A None known. 2X Amplification Mastermix None known. 2X Methyl Amplification Mastermix None known. Library Wash Buffer None known. Hyb Wash Buffer 1 None known. Hyb Wash Buffer 2 None known. Resuspension Buffer None known. Soft Conversion Reagent B None known.

Soft Conversion Binding Beads Keep container tightly closed. Do not breathe

> vapor or spray. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after

handling.

5X Soft Conversion Wash Buffer None known. Soft Conversion Elution Buffer None known. Soft Conversion Repair Solution None known. Library Binding Beads None known. Capture Beads None known. Avida Index Primer Pairs 1-96 for None known.

ILM

Avida Index Primer Pairs 97-192

for ILM

None known.

2.3 Other hazards

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Hazards not otherwise classified

: Nuclease-Free Water None known. End Prep Buffer None known. End Prep Enzyme None known. Ligation Buffer None known. Ligation Enzyme None known. Adapter for ILM None known. Hyb Blocker None known. Hyb Buffer None known. Hyb Enhancer None known. Soft Conversion Reagent A None known. 2X Amplification Mastermix None known. 2X Methyl Amplification Mastermix None known. Library Wash Buffer None known. Hyb Wash Buffer 1 None known. Hyb Wash Buffer 2 None known. Resuspension Buffer None known. Soft Conversion Reagent B None known.

Soft Conversion Binding Beads Causes respiratory tract burns. Causes digestive

Substance

tract burns.

5X Soft Conversion Wash Buffer
Soft Conversion Elution Buffer
Soft Conversion Repair Solution
Library Binding Beads
Capture Beads
Avida Index Primer Pairs 1-96 for ILM
Avida Index Primer Pairs 97-192
None known.
None known.
None known.
None known.
None known.
None known.

for ILM

Section 3. Composition/information on ingredients

: Nuclease-Free Water

Substance/mixture

End Prep Buffer Mixture End Prep Enzyme Mixture Ligation Buffer Mixture Ligation Enzyme Mixture Adapter for ILM Mixture Hyb Blocker Mixture Hvb Buffer Mixture Hyb Enhancer Mixture Soft Conversion Reagent A Mixture 2X Amplification Mastermix Mixture 2X Methyl Amplification Mastermix Mixture Library Wash Buffer Mixture Hyb Wash Buffer 1 Mixture Hyb Wash Buffer 2 Mixture Resuspension Buffer Mixture Soft Conversion Reagent B Mixture Soft Conversion Binding Beads Mixture 5X Soft Conversion Wash Buffer Mixture Soft Conversion Elution Buffer Mixture Soft Conversion Repair Solution Mixture Library Binding Beads Mixture Capture Beads Mixture Avida Index Primer Pairs 1-96 for ILM Mixture Avida Index Primer Pairs 97-192 for Mixture **ILM**

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Section 3. Composition/information on ingredients

Ingredient name	%	CAS number	
Nuclease-Free Water			
water	100	7732-18-5	
End Prep Buffer			
Magnesium chloride	<2.5	7786-30-3	
End Prep Enzyme			
Glycerol	≥50 - ≤75	56-81-5	
Ligation Enzyme			
Glycerol	≥50 - ≤75	56-81-5	
Hyb Buffer			
tetramethylammonium chloride	≥10 - <15	75-57-0	
Dextran sulfate sodium	≤3	9011-18-1	
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	<0.1	9036-19-5	
Hyb Enhancer			
Formamide	≥90	75-12-7	
Soft Conversion Reagent A			
tetrahydro-2-furylmethanol	≥90	97-99-4	
2X Amplification Mastermix			
Glycerol	<10	56-81-5	
Hyb Wash Buffer 1			
Sodium dodecyl sulphate	≤0.3	151-21-3	
Hyb Wash Buffer 2			
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	<0.1	9036-19-5	
Soft Conversion Reagent B			
ammonium hydrogensulphite	≥50 - ≤75	10192-30-0	

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Section 3. Composition/information on ingredients

Soft Conversion Binding Beads		
Ethanol	≥50 - ≤75	64-17-5
Guanidinium thiocyanate	≥10 - ≤21	593-84-0
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	≤6.5	9036-19-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

	4.1	Description	f necessary	first aid	measures
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Eye contact: Nuclease-Free Water Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

End Prep Buffer Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

End Prep Enzyme Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention. Immediately flush eyes with plenty of water,

Ligation Buffer Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Ligation Enzyme Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention. Immediately flush eyes with plenty of water,

Adapter for ILM Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Hyb Blocker Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Hyb Buffer Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison

center or physician.

Hyb Enhancer Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get

medical attention.

Soft Conversion Reagent A Immediately flush eyes with plenty of water,

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occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get

medical attention.

Immediately flush eyes with plenty of water, 2X Amplification Mastermix

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

2X Methyl Amplification Mastermix Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Library Wash Buffer Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Immediately flush eyes with plenty of water, Hyb Wash Buffer 1

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Immediately flush eyes with plenty of water, Hyb Wash Buffer 2

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Immediately flush eyes with plenty of water, Resuspension Buffer

> occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Immediately flush eyes with plenty of water, Soft Conversion Reagent B

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get

medical attention.

Get medical attention immediately. Call a poison Soft Conversion Binding Beads

> center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a

physician.

5X Soft Conversion Wash Buffer Immediately flush eyes with plenty of water,

> occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Get medical attention immediately. Call a poison Soft Conversion Elution Buffer

center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a

physician.

Soft Conversion Repair Solution Immediately flush eyes with plenty of water,

> occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Immediately flush eyes with plenty of water, Library Binding Beads

> occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Capture Beads Immediately flush eyes with plenty of water,

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Avida Index Primer Pairs 1-96 for

ILM

medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Avida Index Primer Pairs 97-192

for ILM

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

: Nuclease-Free Water

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

End Prep Buffer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance

for 48 hours.

Remove victim to fresh air and keep at rest in a End Prep Enzyme

position comfortable for breathing. If not

breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a

collar, tie, belt or waistband.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48

hours.

Ligation Enzyme Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain

collar, tie, belt or waistband.

Remove victim to fresh air and keep at rest in a Adapter for ILM

position comfortable for breathing. Get medical

an open airway. Loosen tight clothing such as a

attention if symptoms occur.

Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

Remove victim to fresh air and keep at rest in a Hyb Buffer

position comfortable for breathing. If not

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Inhalation

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Ligation Buffer

Hyb Blocker

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breathing, if breathing is irregular or if respiratory

arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire. symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Hyb Enhancer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Soft Conversion Reagent A

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

2X Amplification Mastermix

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

2X Methyl Amplification Mastermix

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Library Wash Buffer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a Hyb Wash Buffer 1 position comfortable for breathing. Get medical

attention if symptoms occur.

Hyb Wash Buffer 2

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

Resuspension Buffer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

Soft Conversion Reagent B

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not

breathing, if breathing is irregular or if respiratory

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Soft Conversion Binding Beads

5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Remove victim to fresh air and keep at rest in a

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Skin contact

position comfortable for breathing. Get medical

attention if symptoms occur.

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Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

Avida Index Primer Pairs 97-192

for ILM

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

Nuclease-Free Water Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water. **End Prep Buffer**

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

End Prep Enzyme Flush contaminated skin with plenty of water.

> Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly

before reuse.

Flush contaminated skin with plenty of water. Ligation Buffer

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse.

Flush contaminated skin with plenty of water. Hyb Enhancer

> Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly

before reuse.

Soft Conversion Reagent A Flush contaminated skin with plenty of water.

> Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly

before reuse.

2X Amplification Mastermix Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water. 2X Methyl Amplification Mastermix

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Library Wash Buffer

Ligation Enzyme before reuse. Adapter for ILM medical attention if symptoms occur. Hyb Blocker medical attention if symptoms occur. Hyb Buffer Clean shoes thoroughly before reuse.

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Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Hyb Wash Buffer 1 Flush contaminated skin with plenty of water.
Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Hyb Wash Buffer 2 Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Resuspension Buffer Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Soft Conversion Reagent B Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly

before reuse.

Soft Conversion Binding Beads Get medical attention immediately. Call a poison

center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

5X Soft Conversion Wash Buffer Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Soft Conversion Elution Buffer Get medical attention immediately. Call a poison

center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing

and shoes. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

Soft Conversion Repair Solution Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Library Binding Beads Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Capture Beads Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Avida Index Primer Pairs 1-96 for

ILM

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Avida Index Primer Pairs 97-192

for ILM

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

: Nuclease-Free Water Wash out mouth with water. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

End Prep Buffer Wash out mouth with water. If material has been swallowed and the exposed person is conscious,

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Ingestion

Date of issue:

estion : Nuclease-Free Wat

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End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. If material has been swallowed and the exposed person is conscious. give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in

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Hyb Enhancer

recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. If material has been swallowed and the exposed person is conscious.

2X Amplification Mastermix

Soft Conversion Reagent A

personnel. Get medical attention if symptoms 2X Methyl Amplification Mastermix Wash out mouth with water. If material has been

give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical

swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

Wash out mouth with water. If material has been Library Wash Buffer swallowed and the exposed person is conscious,

> give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Wash out mouth with water. If material has been swallowed and the exposed person is conscious,

give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

Wash out mouth with water. If material has been Hyb Wash Buffer 2

> swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

Resuspension Buffer Wash out mouth with water. If material has been

Hyb Wash Buffer 1

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Soft Conversion Reagent B

swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, immediately. Maintain an open airway. Loosen Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be to do so by medical personnel. If vomiting occurs, enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, immediately. Maintain an open airway. Loosen Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not personnel. Get medical attention if symptoms occur.

sick as vomiting may be dangerous. Do not induce place in recovery position and get medical attention tight clothing such as a collar, tie, belt or waistband. dangerous. Do not induce vomiting unless directed the head should be kept low so that vomit does not place in recovery position and get medical attention tight clothing such as a collar, tie, belt or waistband. induce vomiting unless directed to do so by medical

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

Soft Conversion Binding Beads

5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

Soft Conversion Repair Solution

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occur.

Library Binding Beads Wash out mouth with water. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Capture Beads Wash out mouth with water. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Avida Index Primer Pairs 1-96 for

ILM

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Avida Index Primer Pairs 97-192

for ILM

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed Potential acute health effects

Eye contact

Nuclease-Free Water
 End Prep Buffer
 End Prep Enzyme
 No known significant effects or critical hazards.
 Causes eye irritation.

u Frep Litzyrile Causes eye iritation

Ligation Buffer No known significant effects or critical hazards.

Ligation Enzyme Causes eye irritation.

Adapter for ILM

No known significant effects or critical hazards.

Hyb Blocker

No known significant effects or critical hazards.

Hyb Buffer

No known significant effects or critical hazards.

Hyb Enhancer

No known significant effects or critical hazards.

Soft Conversion Reagent A Causes serious eye irritation.

2X Amplification Mastermix
2X Methyl Amplification Mastermix
Library Wash Buffer
No known significant effects or critical hazards.

Hyb Wash Buffer 2 No known significant effects or critical hazards. Resuspension Buffer No known significant effects or critical hazards. No known significant effects or critical hazards.

Soft Conversion Reagent B Causes serious eye irritation.
Soft Conversion Binding Beads Causes serious eye damage.

5X Soft Conversion Wash Buffer No known significant effects or critical hazards.

Soft Conversion Elution Buffer Causes serious eye damage.

Soft Conversion Repair Solution
Library Binding Beads
Capture Beads
Avida Index Primer Pairs 1-96 for
No known significant effects or critical hazards.

ILM

Avida Index Primer Pairs 97-192 No known significant effects or critical hazards. for ILM

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Inhalation

: Nuclease-Free Water **End Prep Buffer** End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer

Hyb Enhancer Soft Conversion Reagent A 2X Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution **Library Binding Beads** Capture Beads Avida Index Primer Pairs 1-96 for

for ILM Nuclease-Free Water

Avida Index Primer Pairs 97-192

End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer

Hyb Enhancer

ILM

Soft Conversion Reagent A 2X Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer

Soft Conversion Repair Solution Library Binding Beads

Capture Beads Avida Index Primer Pairs 1-96 for

Avida Index Primer Pairs 97-192

for ILM

No known significant effects or critical hazards. Causes damage to organs following a single exposure if inhaled.

No known significant effects or critical hazards. Corrosive to the respiratory system.

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes damage to organs following a single exposure in contact with skin. Causes skin

No known significant effects or critical hazards. Causes severe burns.

No known significant effects or critical hazards. Causes severe burns.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

Skin contact

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Ingestion

: Nuclease-Free Water No known significant effects or critical hazards. **End Prep Buffer** No known significant effects or critical hazards. End Prep Enzyme No known significant effects or critical hazards. Ligation Buffer No known significant effects or critical hazards. Ligation Enzyme No known significant effects or critical hazards. Adapter for ILM No known significant effects or critical hazards. Hyb Blocker No known significant effects or critical hazards. Hyb Buffer Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.

Hyb Enhancer

Soft Conversion Reagent A

2X Amplification Mastermix

2X Methyl Amplification Mastermix

Library Wash Buffer

No known significant effects or critical hazards.

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Resuspension Buffer

Soft Conversion Reagent B

Soft Conversion Binding Beads

No known significant effects or critical hazards.

Corrosive to the digestive tract. Causes burns.

5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads

Conversion Wash Buffer No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Capture Beads No known significant effects or critical hazards. Avida Index Primer Pairs 1-96 for No known significant effects or critical hazards.

Avida Index Primer Pairs 97-192 No known significant effects or critical hazards. for ILM

Over-exposure signs/symptoms

Eye contact

: Nuclease-Free Water No specific data. End Prep Buffer No specific data.

End Prep Enzyme Adverse symptoms may include the following:

irritation watering redness

Ligation Buffer No specific data.

Ligation Enzyme Adverse symptoms may include the following:

irritation watering redness

Adapter for ILM No specific data. Hyb Blocker No specific data.

Hyb Buffer Adverse symptoms may include the following:

pain or irritation

watering redness

Hyb Enhancer No specific data.

Soft Conversion Reagent A Adverse symptoms may include the following:

pain or irritation

watering redness

2X Amplification Mastermix
2X Methyl Amplification Mastermix
Library Wash Buffer
Hyb Wash Buffer 1
No specific data.
Resuspension Buffer
No specific data.

Soft Conversion Reagent B Adverse symptoms may include the following:

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pain or irritation watering

redness

Soft Conversion Binding Beads Adverse symptoms may include the following:

pain watering redness

5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

No specific data.

Adverse symptoms may include the following:

pain watering redness

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

Avida Index Primer Pairs 1-96 for

ILM

Avida Index Primer Pairs 97-192

No specific data.

No specific data.

No specific data. No specific data.

No specific data.

for ILM

Inhalation

: Nuclease-Free Water No specific data. End Prep Buffer No specific data. End Prep Enzyme No specific data. Ligation Buffer No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data. Hyb Blocker No specific data. Hyb Buffer No specific data.

Hyb Enhancer Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Soft Conversion Reagent A Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

2X Amplification Mastermix
2X Methyl Amplification Mastermix
Library Wash Buffer
Hyb Wash Buffer 1
Hyb Wash Buffer 2
Resuspension Buffer
Soft Conversion Reagent B
No specific data.
No specific data.
No specific data.
No specific data.

Soft Conversion Binding Beads Adverse symptoms may include the following:

respiratory tract irritation

couahina

5X Soft Conversion Wash Buffer
Soft Conversion Elution Buffer
Soft Conversion Repair Solution
Library Binding Beads
Capture Beads
No specific data.

Avida Index Primer Pairs 1-96 for

ILM

Avida Index Primer Pairs 97-192

for ILM

No specific data. No specific data.

No specific data.

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Ingestion

: Nuclease-Free Water No specific data. **End Prep Buffer** No specific data. End Prep Enzyme No specific data. Ligation Buffer No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data. Hyb Blocker No specific data.

Hyb Buffer Adverse symptoms may include the following:

> irritation redness

Adverse symptoms may include the following: Hyb Enhancer

> reduced fetal weight increase in fetal deaths skeletal malformations

Soft Conversion Reagent A Adverse symptoms may include the following:

> reduced fetal weight increase in fetal deaths skeletal malformations

2X Amplification Mastermix No specific data. 2X Methyl Amplification Mastermix No specific data. Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. Resuspension Buffer No specific data. Soft Conversion Reagent B No specific data.

Soft Conversion Binding Beads Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

5X Soft Conversion Wash Buffer No specific data.

Adverse symptoms may include the following: Soft Conversion Elution Buffer

pain or irritation

redness

blistering may occur No specific data. Soft Conversion Repair Solution

No specific data. Library Binding Beads

Capture Beads No specific data. Avida Index Primer Pairs 1-96 for No specific data.

ILM

Avida Index Primer Pairs 97-192 No specific data.

for ILM

Nuclease-Free Water No specific data.

End Prep Buffer No specific data. No specific data. End Prep Enzyme Ligation Buffer No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data. Hyb Blocker No specific data. Hyb Buffer No specific data.

Hyb Enhancer Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

2X Methyl Amplification Mastermix No specific data.

Adverse symptoms may include the following: Soft Conversion Reagent A reduced fetal weight increase in fetal deaths skeletal malformations 2X Amplification Mastermix No specific data.

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Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. Resuspension Buffer No specific data. Soft Conversion Reagent B No specific data.

Soft Conversion Binding Beads Adverse symptoms may include the following:

stomach pains

5X Soft Conversion Wash Buffer No specific data.

Soft Conversion Elution Buffer Adverse symptoms may include the following:

stomach pains
No specific data.

No specific data.

No specific data.

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads Avida Index Primer Pairs 1-96 for

ILM

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for ILM

No specific data.

No specific data.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Nuclease-Free Water

Nuclease-Free Water Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

End Prep Buffer In case of inhalation of decomposition products in a

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

End Prep Enzyme Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Ligation Buffer In case of inhalation of decomposition products in a

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

Ligation Enzyme Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Adapter for ILM Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Hyb Blocker Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Hyb Buffer In case of inhalation of decomposition products in a

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

Hyb Enhancer In case of inhalation of decomposition products in a

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

Soft Conversion Reagent A Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

2X Amplification Mastermix Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

2X Methyl Amplification Mastermix Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

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Library Wash Buffer Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Hyb Wash Buffer 1 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Hyb Wash Buffer 2 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Resuspension Buffer Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Soft Conversion Reagent B In case of inhalation of decomposition products in a

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

Soft Conversion Binding Beads In case of inhalation of decomposition products in a

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

5X Soft Conversion Wash Buffer Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Soft Conversion Elution Buffer Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Soft Conversion Repair Solution In case of inhalation of decomposition products in a

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

Library Binding Beads Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Capture Beads Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

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ILM

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

Avida Index Primer Pairs 97-192

for ILM

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

Specific treatments

Nuclease-Free Water No specific treatment. End Prep Buffer No specific treatment. End Prep Enzyme No specific treatment. **Ligation Buffer** No specific treatment. Ligation Enzyme No specific treatment. Adapter for ILM No specific treatment. Hyb Blocker No specific treatment. Hyb Buffer No specific treatment. Hyb Enhancer No specific treatment. Soft Conversion Reagent A No specific treatment. 2X Amplification Mastermix No specific treatment. 2X Methyl Amplification Mastermix No specific treatment.

Library Wash Buffer
Hyb Wash Buffer 1
Hyb Wash Buffer 2
Resuspension Buffer
Soft Conversion Reagent B
Soft Conversion Binding Beads
No specific treatment.

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5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads

Capture Beads

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ILM

Avida Index Primer Pairs 97-192

for ILM

No specific treatment. No specific treatment.

No specific treatment.

Protection of first-aiders

: Nuclease-Free Water

No action shall be taken involving any personal risk

or without suitable training.

End Prep Buffer No action shall be taken involving any personal risk

or without suitable training.

End Prep Enzyme No action shall be taken involving any personal risk

or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

Ligation Buffer No action shall be taken involving any personal risk

or without suitable training.

Ligation Enzyme No action shall be taken involving any personal risk

or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

Adapter for ILM No action shall be taken involving any personal risk

or without suitable training.

Hyb Blocker No action shall be taken involving any personal risk

or without suitable training.

Hyb Buffer No action shall be taken involving any personal risk

or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

Hyb Enhancer No action shall be taken involving any personal risk

or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

Soft Conversion Reagent A No action shall be taken involving any personal risk

or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

or without suitable training.

2X Methyl Amplification Mastermix No action shall be taken involving any personal risk

or without suitable training.

Library Wash Buffer No action shall be taken involving any personal risk

or without suitable training.

Hyb Wash Buffer 1 No action shall be taken involving any personal risk

or without suitable training.

Hyb Wash Buffer 2 No action shall be taken involving any personal risk

or without suitable training.

Resuspension Buffer No action shall be taken involving any personal risk

or without suitable training.

Soft Conversion Reagent B No action shall be taken involving any personal risk

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or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

Soft Conversion Binding Beads No action shall be taken involving any personal risk

or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

5X Soft Conversion Wash Buffer No action shall be taken involving any personal risk

or without suitable training.

Soft Conversion Elution Buffer No action shall be taken involving any personal risk

or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

Soft Conversion Repair Solution No action shall be taken involving any personal risk

or without suitable training.

Library Binding Beads No action shall be taken involving any personal risk

or without suitable training.

Capture Beads No action shall be taken involving any personal risk

or without suitable training.

Avida Index Primer Pairs 1-96 for

II M

Avida Index Primer Pairs 97-192

for ILM

No action shall be taken involving any personal risk

or without suitable training.

No action shall be taken involving any personal risk

or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Nuclease-Free Water Use an extinguishing agent suitable for the

surrounding fire.

End Prep Buffer Use an extinguishing agent suitable for the

surrounding fire.

End Prep Enzyme Use an extinguishing agent suitable for the

surrounding fire.

Ligation Buffer Use an extinguishing agent suitable for the

surrounding fire.

Ligation Enzyme Use an extinguishing agent suitable for the

surrounding fire.

Adapter for ILM Use an extinguishing agent suitable for the

surrounding fire.

Hyb Blocker Use an extinguishing agent suitable for the

surrounding fire.

Hyb Buffer Use an extinguishing agent suitable for the

surrounding fire.

Hyb Enhancer Use an extinguishing agent suitable for the

surrounding fire.

Soft Conversion Reagent A Use dry chemical, CO₂, water spray (fog) or foam.

surrounding fire.

surrounding fire.

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Library Wash Buffer Use an extinguishing agent suitable for the

surrounding fire.

Hyb Wash Buffer 1 Use an extinguishing agent suitable for the

surrounding fire.

Hyb Wash Buffer 2 Use an extinguishing agent suitable for the

surrounding fire.

Resuspension Buffer Use an extinguishing agent suitable for the

surrounding fire.

Soft Conversion Reagent B Use an extinguishing agent suitable for the

surrounding fire.

Soft Conversion Binding Beads Use dry chemical, CO₂, water spray (fog) or foam.

5X Soft Conversion Wash Buffer Use an extinguishing agent suitable for the

surrounding fire.

surrounding fire.

Soft Conversion Repair Solution Use an extinguishing agent suitable for the

surrounding fire.

Library Binding Beads

Use an extinguishing agent suitable for the

surrounding fire.

Capture Beads Use an extinguishing agent suitable for the

surrounding fire.

Avida Index Primer Pairs 1-96 for

ILM

Avida Index Primer Pairs 97-192

for ILM

Use an extinguishing agent suitable for the

surrounding fire.

Use an extinguishing agent suitable for the

surrounding fire.

Unsuitable extinguishing media

Nuclease-Free Water None known. End Prep Buffer None known. End Prep Enzyme None known. Ligation Buffer None known. Ligation Enzyme None known. Adapter for ILM None known. Hyb Blocker None known. Hyb Buffer None known. Hyb Enhancer None known. Soft Conversion Reagent A Do not use water jet.

2X Amplification Mastermix
2X Methyl Amplification Mastermix
Library Wash Buffer
Hyb Wash Buffer 1
None known.
None known.

Hyb Wash Buffer 1 None known.
Hyb Wash Buffer 2 None known.
Resuspension Buffer None known.
Soft Conversion Reagent B None known.
Soft Conversion Binding Beads Do not use water jet.

5X Soft Conversion Wash Buffer
Soft Conversion Elution Buffer
None known.
Soft Conversion Repair Solution
Library Binding Beads
Capture Beads
Avida Index Primer Pairs 1-96 for
None known.
None known.
None known.
None known.

Avida Index Primer Pairs 1-96 for ILM

Avida Index Primer Pairs 97-192

for ILM

None known.

5.2 Special hazards arising from the substance or mixture

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Specific hazards arising from the chemical

In a fire or if heated, a pressure increase will occur : Nuclease-Free Water

and the container may burst.

End Prep Buffer In a fire or if heated, a pressure increase will occur

and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to

any waterway, sewer or drain.

End Prep Enzyme In a fire or if heated, a pressure increase will occur

and the container may burst.

Ligation Buffer In a fire or if heated, a pressure increase will occur

and the container may burst.

Ligation Enzyme In a fire or if heated, a pressure increase will occur

and the container may burst.

In a fire or if heated, a pressure increase will occur Adapter for ILM

and the container may burst.

In a fire or if heated, a pressure increase will occur Hyb Blocker

and the container may burst.

In a fire or if heated, a pressure increase will occur Hyb Buffer

> and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to

any waterway, sewer or drain.

In a fire or if heated, a pressure increase will occur Hyb Enhancer

and the container may burst.

Combustible liquid. Runoff to sewer may create fire Soft Conversion Reagent A

> or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

In a fire or if heated, a pressure increase will occur 2X Amplification Mastermix

and the container may burst.

In a fire or if heated, a pressure increase will occur 2X Methyl Amplification Mastermix

and the container may burst.

Library Wash Buffer In a fire or if heated, a pressure increase will occur

and the container may burst.

Hyb Wash Buffer 1 In a fire or if heated, a pressure increase will occur

and the container may burst.

In a fire or if heated, a pressure increase will occur Hyb Wash Buffer 2

and the container may burst.

In a fire or if heated, a pressure increase will occur Resuspension Buffer

and the container may burst.

Soft Conversion Reagent B In a fire or if heated, a pressure increase will occur

and the container may burst.

Soft Conversion Binding Beads Flammable liquid and vapor. Runoff to sewer may

> create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

5X Soft Conversion Wash Buffer

In a fire or if heated, a pressure increase will occur

and the container may burst.

Soft Conversion Elution Buffer In a fire or if heated, a pressure increase will occur

and the container may burst. In a fire or if heated, a pressure increase will occur

Soft Conversion Repair Solution

In a fire or if heated, a pressure increase will occur

and the container may burst. Library Binding Beads

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and the container may burst. Capture Beads

In a fire or if heated, a pressure increase will occur

and the container may burst.

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In a fire or if heated, a pressure increase will occur

and the container may burst.

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for ILM

In a fire or if heated, a pressure increase will occur

and the container may burst.

Hazardous thermal decomposition products : Nuclease-Free Water

No specific data. End Prep Buffer

Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds metal oxide/oxides

End Prep Enzyme Decomposition products may include the following

> materials: carbon dioxide carbon monoxide

Ligation Buffer Decomposition products may include the following

> materials: carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds

Ligation Enzyme Decomposition products may include the following

materials: carbon dioxide carbon monoxide No specific data.

Adapter for ILM Hyb Blocker No specific data.

Hyb Buffer Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides

Decomposition products may include the following Hyb Enhancer

> materials: carbon dioxide carbon monoxide nitrogen oxides

Soft Conversion Reagent A Decomposition products may include the following

> materials: carbon dioxide carbon monoxide

2X Amplification Mastermix Decomposition products may include the following

materials: carbon dioxide carbon monoxide

2X Methyl Amplification Mastermix Decomposition products may include the following

materials: carbon dioxide carbon monoxide

Library Wash Buffer Decomposition products may include the following

> materials: carbon dioxide

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carbon monoxide

halogenated compounds metal oxide/oxides

Hyb Wash Buffer 1 Decomposition products may include the following

materials:

halogenated compounds metal oxide/oxides

Hyb Wash Buffer 2 No specific data. Resuspension Buffer No specific data.

Soft Conversion Reagent B Decomposition products may include the following

materials: nitrogen oxides sulfur oxides

Soft Conversion Binding Beads Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

5X Soft Conversion Wash Buffer No specific data. Soft Conversion Elution Buffer No specific data.

Soft Conversion Repair Solution Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds

Library Binding Beads Decomposition products may include the following

materials:
carbon dioxide
carbon monoxide
halogenated compounds
metal oxide/oxides
No specific data.

Capture Beads

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ILM

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for ILM

No specific data.

No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Nuclease-Free Water Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

End Prep Buffer Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

End Prep Enzyme Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Ligation Buffer Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Ligation Enzyme Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

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Adapter for ILM Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Hyb Blocker Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Hyb Buffer Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Hyb Enhancer Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Soft Conversion Reagent A Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

2X Amplification Mastermix Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

2X Methyl Amplification Mastermix Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Library Wash Buffer Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Hyb Wash Buffer 1 Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Hyb Wash Buffer 2 Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Resuspension Buffer Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Soft Conversion Reagent B Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Soft Conversion Binding Beads Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water

spray to keep fire-exposed containers cool.

5X Soft Conversion Wash Buffer Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

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Soft Conversion Elution Buffer Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Soft Conversion Repair Solution Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Library Binding Beads Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Capture Beads Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

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ILM

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

action shall be taken involving any personal risk or

without suitable training.

Avida Index Primer Pairs 97-192

for ILM

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Special protective equipment for fire-fighters

: Nuclease-Free Water Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

End Prep Buffer Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

End Prep Enzyme Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Ligation Buffer Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Ligation Enzyme Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Adapter for ILM Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Hyb Blocker Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Hyb Buffer Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Hyb Enhancer Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

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Soft Conversion Reagent A Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

2X Amplification Mastermix Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

2X Methyl Amplification Mastermix Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Library Wash Buffer Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Hyb Wash Buffer 1 Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Hyb Wash Buffer 2 Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Resuspension Buffer Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Soft Conversion Reagent B Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Soft Conversion Binding Beads Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

5X Soft Conversion Wash Buffer Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Soft Conversion Elution Buffer Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Soft Conversion Repair Solution Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Library Binding Beads Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Capture Beads Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Avida Index Primer Pairs 1-96 for

ILM

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

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Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Nuclease-Free Water

End Prep Buffer

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

No action shall be taken involving any personal risk or without suitable training. Evacuate

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal

risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal

risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate

personal protective equipment.

No action shall be taken involving any personal

risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal

risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate

personal protective equipment.

No action shall be taken involving any personal

risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal

risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal

risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not

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touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate

personal protective equipment.

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate

ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate

personal protective equipment.

No action shall be taken involving any personal Soft Conversion Reagent A risk or without suitable training. Evacuate

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

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risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

Hyb Enhancer

2X Amplification Mastermix

2X Methyl Amplification Mastermix

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Resuspension Buffer

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Soft Conversion Reagent B

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Soft Conversion Binding Beads

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal

risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not

touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

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risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not

touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate

5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

Avida Index Primer Pairs 1-96 for ILM

Avida Index Primer Pairs 97-192 for ILM

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For emergency responders: Nuclease-Free Water

End Prep Buffer

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

Hyb Enhancer

Soft Conversion Reagent A

2X Amplification Mastermix

2X Methyl Amplification Mastermix

Library Wash Buffer

Hyb Wash Buffer 1

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8

on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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Hyb Wash Buffer 2

Resuspension Buffer

Soft Conversion Reagent B

Soft Conversion Binding Beads

5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

Avida Index Primer Pairs 1-96 for ILM

Avida Index Primer Pairs 97-192 for ILM

Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the

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If specialized clothing is required to deal with the spillage, take note of any information in Section 8

on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

If specialized clothing is required to deal with the

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

waterways, soil or air).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air). Water polluting material. May be harmful to the environment if released in

large quantities.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

6.2 Environmental precautions

: Nuclease-Free Water

End Prep Buffer

End Prep Enzyme

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caused environmental pollution (sewers,

waterways, soil or air).

Ligation Buffer Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Avoid dispersal of spilled material and runoff and Ligation Enzyme

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Adapter for ILM Avoid dispersal of spilled material and runoff and

> contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Avoid dispersal of spilled material and runoff and Hyb Blocker

> contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Hyb Buffer Avoid dispersal of spilled material and runoff and

> contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

> caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in

large quantities.

Hyb Enhancer Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Soft Conversion Reagent A Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Avoid dispersal of spilled material and runoff and 2X Amplification Mastermix

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Avoid dispersal of spilled material and runoff and 2X Methyl Amplification Mastermix

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

Avoid dispersal of spilled material and runoff and Library Wash Buffer

> contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Hyb Wash Buffer 1 Avoid dispersal of spilled material and runoff and

> contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Hyb Wash Buffer 2 Avoid dispersal of spilled material and runoff and

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contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Resuspension Buffer Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

Soft Conversion Reagent B Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers

caused environmental pollution (sewers, waterways, soil or air).

Soft Conversion Binding Beads Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air). Water polluting material. May be harmful to the environment if released in

large quantities. Collect spillage.

5X Soft Conversion Wash Buffer Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Soft Conversion Elution Buffer Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Library Binding Beads Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Capture Beads Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Avida Index Primer Pairs 1-96 for

ILM

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

Avida Index Primer Pairs 97-192

for ILM

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

caused environmental pollution (sewers,

waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

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Methods for cleaning up

: Nuclease-Free Water

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

End Prep Buffer

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

End Prep Enzyme

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Ligation Buffer

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Ligation Enzyme

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Adapter for ILM

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Stop leak if without risk. Move containers from spill

area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Hyb Buffer

Hyb Blocker

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Hyb Enhancer

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Soft Conversion Reagent A

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if watersoluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of

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via a licensed waste disposal contractor.

2X Amplification Mastermix

Stop leak if without risk. Move container

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

2X Methyl Amplification Mastermix Stop leak if without risk. Move containers from spill

area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Library Wash Buffer Stop leak if without risk. Move containers from spill

area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Hyb Wash Buffer 1 Stop leak if without risk. Move containers from spill

area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Hyb Wash Buffer 2 Stop leak if without risk. Move containers from spill

area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Resuspension Buffer Stop leak if without risk. Move containers from spill

area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Soft Conversion Reagent B Stop leak if without risk. Move containers from spill

area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Soft Conversion Binding Beads Stop leak if without risk. Move containers from spill

area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb

with an inert dry material and place in an

appropriate waste disposal container. Dispose of

via a licensed waste disposal contractor.

5X Soft Conversion Wash Buffer Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Soft Conversion Elution Buffer Stop leak if without risk. Move containers from spill

area. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in

Coft Conversion Flution Duffer

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Soft Conversion Repair Solution

container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Library Binding Beads

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Capture Beads

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Avida Index Primer Pairs 1-96 for

ILM

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Avida Index Primer Pairs 97-192

for ILM

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

: Nuclease-Free Water **Protective measures**

Put on appropriate personal protective equipment (see Section 8).

End Prep Buffer

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not

reuse container.

End Prep Enzyme Put on appropriate personal protective equipment

(see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do

not reuse container.

Ligation Buffer Put on appropriate personal protective equipment

(see Section 8).

Ligation Enzyme Put on appropriate personal protective equipment

(see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or

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Adapter for ILM

Hyb Blocker

Hyb Buffer

Hyb Enhancer

Soft Conversion Reagent A

2X Amplification Mastermix

2X Methyl Amplification Mastermix

Library Wash Buffer

Hyb Wash Buffer 1

mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do

not reuse container.

Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and

can be hazardous. Do not reuse container. Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during

pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original

compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special

container or an approved alternative made from a

instructions before use. Avoid exposure during pregnancy. Do not handle until all safety

precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless

adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosionproof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be

hazardous. Do not reuse container.

Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment

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Hyb Wash Buffer 2

(see Section 8). Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment Resuspension Buffer (see Section 8).

Soft Conversion Reagent B

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do

not reuse container.

Soft Conversion Binding Beads

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosionproof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

5X Soft Conversion Wash Buffer

Put on appropriate personal protective equipment (see Section 8).

Soft Conversion Elution Buffer

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly

closed when not in use. Keep away from acids. Empty containers retain product residue and can be

hazardous. Do not reuse container.

Soft Conversion Repair Solution

Put on appropriate personal protective equipment (see Section 8).

Library Binding Beads

Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment

Put on appropriate personal protective equipment

(see Section 8).

Avida Index Primer Pairs 1-96 for

(see Section 8).

Avida Index Primer Pairs 97-192

Put on appropriate personal protective equipment

for ILM

Capture Beads

(see Section 8).

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Advice on general occupational hygiene

: Nuclease-Free Water

End Prep Buffer

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Hyb Blocker

Hyb Buffer

Hyb Enhancer

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove

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Soft Conversion Reagent A

2X Amplification Mastermix

2X Methyl Amplification Mastermix

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Resuspension Buffer

Soft Conversion Reagent B

Soft Conversion Binding Beads

contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

before eating, drinking and smoking. Remove contaminated clothing and protective equipment

before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited

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5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

Avida Index Primer Pairs 1-96 for ILM

Avida Index Primer Pairs 97-192 for ILM

in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

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7.2 Conditions for safe storage, including any incompatibilities

: Nuclease-Free Water

End Prep Buffer

End Prep Enzyme

Ligation Buffer

Ligation Enzyme

Adapter for ILM

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed

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Hyb Blocker

Hyb Buffer

Hyb Enhancer

Soft Conversion Reagent A

2X Amplification Mastermix

until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from

incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed

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2X Methyl Amplification Mastermix

until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in

original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a

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original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled

containers. Use appropriate containment to avoid environmental contamination. See Section 10 for

Library Wash Buffer

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Resuspension Buffer

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Soft Conversion Reagent B

Soft Conversion Binding Beads

5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer

Soft Conversion Repair Solution

incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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Library Binding Beads

Capture Beads

Avida Index Primer Pairs 1-96 for ILM

Avida Index Primer Pairs 97-192 for ILM

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations

: Nuclease-Free Water
 End Prep Buffer
 End Prep Enzyme
 Ligation Buffer
 Ligation Enzyme
 Adapter for ILM
 Hyb Blocker
 Hyb Buffer
 Hyb Enhancer
 Soft Conversion Reagent A
 2X Amplification Mastermix
 2X Methyl Amplification Mastermix

Industrial applications, Professional applications. Industrial applications, Professional applications.

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for ILM

Section 7. Handling and storage

Library Wash Buffer Industrial applications, Professional applications. Industrial applications, Professional applications. Hyb Wash Buffer 1 Hyb Wash Buffer 2 Industrial applications, Professional applications. Resuspension Buffer Industrial applications, Professional applications. Industrial applications, Professional applications. Soft Conversion Reagent B Industrial applications, Professional applications. Soft Conversion Binding Beads Industrial applications, Professional applications. 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Industrial applications, Professional applications. Soft Conversion Repair Solution Industrial applications, Professional applications. Library Binding Beads Industrial applications, Professional applications. Capture Beads Industrial applications, Professional applications. Avida Index Primer Pairs 1-96 for Industrial applications, Professional applications. **ILM** Avida Index Primer Pairs 97-192 Industrial applications, Professional applications.

Industrial sector specific solutions

Nuclease-Free Water Not available. End Prep Buffer Not available. End Prep Enzyme Not available. **Ligation Buffer** Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Amplification Mastermix Not available. 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Resuspension Buffer Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer Not available. Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Avida Index Primer Pairs 1-96 for Not available. Avida Index Primer Pairs 97-192 Not available. for ILM

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Nuclease-Free Water water	None.
End Prep Buffer Magnesium chloride	None.
End Prep Enzyme Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 10 mg/m³ 8 hours. Form: Total dust

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Section 8. Exposure controls/personal protection

OSHA PEL (United States, 5/2018).

TWA: 5 mg/m³ 8 hours. Form: Respirable fraction

TWA: 15 mg/m³ 8 hours. Form: Total dust **CAL OSHA PEL (United States, 5/2018).** TWA: 5 mg/m³ 8 hours. Form: respirable fraction

TWA: 10 mg/m³ 8 hours. Form: total dust

Ligation Enzyme

Glycerol

OSHA PEL 1989 (United States, 3/1989).

TWA: 5 mg/m³ 8 hours. Form: Respirable fraction

TWA: 10 mg/m³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018).

TWA: 5 mg/m³ 8 hours. Form: Respirable fraction

TWA: 15 mg/m³ 8 hours. Form: Total dust CAL OSHA PEL (United States, 5/2018).

TWA: 5 mg/m³ 8 hours. Form: respirable fraction

TWA: 10 mg/m³ 8 hours. Form: total dust

Hyb Buffer

tetramethylammonium chloride
Dextran sulfate sodium
Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.
omega.-hydroxy-

None.

None.

None.

Hyb Enhancer

Formamide

ACGIH TLV (United States, 1/2023).

Absorbed through skin.

TWA: 1 ppm 8 hours.

OSHA PEL 1989 (United States, 3/1989).

TWA: 20 ppm 8 hours. TWA: 30 mg/m³ 8 hours. STEL: 30 ppm 15 minutes. STEL: 45 mg/m³ 15 minutes.

NIOSH REL (United States, 10/2020).

Absorbed through skin.

TWA: 10 ppm 10 hours. TWA: 15 mg/m³ 10 hours.

CAL OSHA PEL (United States, 5/2018).

Absorbed through skin. TWA: 18 mg/m³ 8 hours. TWA: 10 ppm 8 hours.

Soft Conversion Reagent A

tetrahydro-2-furylmethanol

OARS WEEL (United States, 4/2022).

Absorbed through skin.

TWA: 0.5 ppm 8 hours.

2X Amplification Mastermix

Glycerol

OSHA PEL 1989 (United States, 3/1989).

TWA: 5 mg/m³ 8 hours. Form: Respirable

fraction

TWA: 10 mg/m³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018).

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Section 8. Exposure controls/personal protection

TWA: 5 mg/m³ 8 hours. Form: Respirable

fraction

TWA: 15 mg/m³ 8 hours. Form: Total dust CAL OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: respirable

TWA: 10 mg/m³ 8 hours. Form: total dust

Hyb Wash Buffer 1

Sodium dodecyl sulphate

Hyb Wash Buffer 2

Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.

omega.-hydroxy-

Soft Conversion Reagent B

ammonium hydrogensulphite

Soft Conversion Binding Beads

Ethanol

None.

None.

None.

ACGIH TLV (United States, 1/2023).

STEL: 1000 ppm 15 minutes.

OSHA PEL 1989 (United States, 3/1989).

TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours.

NIOSH REL (United States, 10/2020).

TWA: 1000 ppm 10 hours. TWA: 1900 mg/m³ 10 hours. OSHA PEL (United States, 5/2018).

TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours.

CAL OSHA PEL (United States, 5/2018).

TWA: 1900 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.

Guanidinium thiocyanate Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.

omega.-hydroxy-

Biological exposure indices

No exposure indices known.

8.2 Exposure controls

Appropriate engineering controls

Environmental exposure controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

None.

None.

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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Section 8. Exposure controls/personal protection

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state

: Nuclease-Free Water Liquid. **End Prep Buffer** Liquid. End Prep Enzyme Liquid. Ligation Buffer Liquid. Ligation Enzyme Liquid. Adapter for ILM Liquid. Hvb Blocker Liquid. Hyb Buffer Liquid. Hyb Enhancer Liquid. Soft Conversion Reagent A Liquid. 2X Amplification Mastermix Liquid.

2X Methyl Amplification Mastermix Liquid. [Clear.]

Library Wash Buffer Liquid. Hyb Wash Buffer 1 Liquid. Hyb Wash Buffer 2 Liquid. Resuspension Buffer Liquid. Soft Conversion Reagent B Liquid. Soft Conversion Binding Beads Liquid. 5X Soft Conversion Wash Buffer Liquid. Soft Conversion Elution Buffer Liquid. Soft Conversion Repair Solution Liquid. Library Binding Beads Liquid. Capture Beads Liquid. Avida Index Primer Pairs 1-96 for Liquid.

ILM

Avida Index Primer Pairs 97-192 Liquid.

for ILM

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for ILM

for ILM

Section 9. Physical and chemical properties and safety characteristics

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: Nuclease-Free Water Colorless. **End Prep Buffer** Not available. End Prep Enzyme Not available. **Ligation Buffer** Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Amplification Mastermix Not available. 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Resuspension Buffer Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer Not available. Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Avida Index Primer Pairs 1-96 for Not available. ILMAvida Index Primer Pairs 97-192 Not available.

Odor

Nuclease-Free Water Odorless. End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Amplification Mastermix Not available. 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Resuspension Buffer Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer Not available. Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Avida Index Primer Pairs 1-96 for Not available. Avida Index Primer Pairs 97-192 Not available.

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: Nuclease-Free Water Not available. **End Prep Buffer** Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Amplification Mastermix Not available. 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Resuspension Buffer Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer Not available. Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Avida Index Primer Pairs 1-96 for Not available. ILM

Avida Index Primer Pairs 97-192

for ILM

Not available.

7 Nuclease-Free Water End Prep Buffer 8 End Prep Enzyme 7.5 Ligation Buffer 8 7.5 Ligation Enzyme Adapter for ILM 8 Hyb Blocker 8

Hyb Enhancer Soft Conversion Reagent A Not available. 2X Amplification Mastermix Not available.

2X Methyl Amplification Mastermix 8.6

Library Wash Buffer Hyb Wash Buffer 1 7.2 to 7.6 Hyb Wash Buffer 2 7.2 to 7.6 Resuspension Buffer 8

Soft Conversion Reagent B 4.5 to 5.5 Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer

Soft Conversion Elution Buffer Soft Conversion Repair Solution 8 Library Binding Beads 8

Capture Beads

for ILM

7.5 Hvb Buffer Not available. Not available. Not available. Not available. 13 Not available. Avida Index Primer Pairs 1-96 for Avida Index Primer Pairs 97-192 8

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Melting point/freezing point

Nuclease-Free Water 0°C (32°F) **End Prep Buffer** Not available. End Prep Enzyme Not available. Not available. Ligation Buffer Ligation Enzyme Not available. 0°C (32°F) Adapter for ILM Hyb Blocker 0°C (32°F) Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A <-120°C (<-184°F) 2X Amplification Mastermix Not available. 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 0°C (32°F) Resuspension Buffer 0°C (32°F) Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer 0°C (32°F) Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Avida Index Primer Pairs 1-96 for 0°C (32°F) ILMAvida Index Primer Pairs 97-192 0°C (32°F) for ILM

Boiling point, initial boiling point, and boiling range

Nuclease-Free Water 100°C (212°F) End Prep Buffer Not available. End Prep Enzyme Not available. **Ligation Buffer** Not available. Ligation Enzyme Not available. 100°C (212°F) Adapter for ILM Hyb Blocker 100°C (212°F) Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A 177.7°C (351.9°F) 2X Amplification Mastermix Not available. 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 100°C (212°F) 100°C (212°F) Resuspension Buffer Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer 100°C (212°F) Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Avida Index Primer Pairs 1-96 for 100°C (212°F) Avida Index Primer Pairs 97-192 100°C (212°F)

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for ILM

Flash point

: Nuclease-Free Water Not available. **End Prep Buffer** Not available. End Prep Enzyme Not available. Not available. Ligation Buffer Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available.

Soft Conversion Reagent A Closed cup: 73°C (163.4°F)

2X Amplification Mastermix
2X Methyl Amplification Mastermix
Library Wash Buffer
Hyb Wash Buffer 1
Hyb Wash Buffer 2
Resuspension Buffer
Soft Conversion Reagent B
Not available.
Not available.
Not available.
Not available.

Soft Conversion Binding Beads Closed cup: 37.8 to 61°C (100 to 141.8°F)

5X Soft Conversion Wash Buffer
Soft Conversion Elution Buffer
Soft Conversion Repair Solution
Library Binding Beads
Capture Beads
Avida Index Primer Pairs 1-96 for
Not available.
Not available.
Not available.
Not available.

ILM

Avida Index Primer Pairs 97-192 Not available.

for ILM

	Closed cup		Open cup			
Ingredient name	°C	°F	Method	°C	°F	Method
End Prep Enzyme						
Glycerol	-	-	-	177	350.6	-
Ligation Enzyme						
Glycerol	-	-	-	177	350.6	-
Hyb Enhancer						
Formamide	150	302	-	152	305.6	DIN EN ISO 2592
2X Amplification Mastermix						
Glycerol	-	-	-	177	350.6	-

Evaporation rate

: Nuclease-Free Water Not available. **End Prep Buffer** Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available.

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for ILM

Section 9. Physical and chemical properties and safety characteristics

2X Amplification Mastermix Not available. 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Resuspension Buffer Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer Not available. Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Avida Index Primer Pairs 1-96 for Not available. Avida Index Primer Pairs 97-192 Not available.

Flammability

Nuclease-Free Water Not applicable. Not applicable. End Prep Buffer End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Not applicable. Adapter for ILM Hyb Blocker Not applicable. Not applicable. Hyb Buffer Hyb Enhancer Not applicable. Soft Conversion Reagent A Not applicable. 2X Amplification Mastermix Not applicable. 2X Methyl Amplification Mastermix Not applicable. Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Not applicable. Hyb Wash Buffer 2 Resuspension Buffer Not applicable. Soft Conversion Reagent B Not applicable. Soft Conversion Binding Beads Not applicable. 5X Soft Conversion Wash Buffer Not applicable. Soft Conversion Elution Buffer Not applicable. Soft Conversion Repair Solution Not applicable. Not applicable. Library Binding Beads Capture Beads Not applicable. Avida Index Primer Pairs 1-96 for Not applicable.

Lower and upper explosion limit/flammability limit

for ILM Nuclease-Free Water Not available. End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Amplification Mastermix Not available. 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Resuspension Buffer Not available.

Not applicable.

Avida Index Primer Pairs 97-192

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Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer Not available. Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Avida Index Primer Pairs 1-96 for Not available.

Avida Index Primer Pairs 97-192

for ILM

Not available.

Vapor pressure

: Nuclease-Free Water 2.3 kPa (17.5 mm Hg) [room temperature] 12.3 kPa (92.258 mm Hg) [50°C (122°F)]

	Vapor Pressure at 20°C		re at 20°C	Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
End Prep Buffer						
water	17.5	2.3	-	92.258	12.3	-
End Prep Enzyme						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Ligation Buffer						
water	17.5	2.3	-	92.258	12.3	-
Ligation Enzyme						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Adapter for ILM						
water	17.5	2.3	-	92.258	12.3	-
Hyb Blocker						
water	17.5	2.3	-	92.258	12.3	-
Hyb Buffer						
water	17.5	2.3	-	92.258	12.3	-
tetramethylammonium chloride	0.00000001	0.00000000013	EU A.4	-	-	-
Hyb Enhancer						
Formamide	0.045	0.006	-	-	-	-

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and Chemical	prope	, tics	and Said	ty Cit	aracte	1131103
Soft Conversion Reagent A						
tetrahydro- 2-furylmethanol	1.4	0.19	-	-	-	-
2X Amplification Mastermix						
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
2X Methyl Amplification Mastermix						
water	17.5	2.3	-	92.258	12.3	-
Library Wash Buffer						
water	17.5	2.3	-	92.258	12.3	-
Hyb Wash Buffer 1						
water	17.5	2.3	-	92.258	12.3	-
Hyb Wash Buffer 2						
water	17.5	2.3	-	92.258	12.3	-
Resuspension Buffer						
water	17.5	2.3	-	92.258	12.3	-
Soft Conversion Reagent B						
water	17.5	2.3	-	92.258	12.3	-
Soft Conversion Binding Beads						
Ethanol	42.94865	5.7	_	-	-	-
water	17.5	2.3	-	92.258	12.3	-
5X Soft Conversion Wash Buffer						

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	P. OP					
water	17.5	2.3	-	92.258	12.3	-
Soft Conversion Elution Buffer						
water	17.5	2.3	-	92.258	12.3	-
Soft Conversion Repair Solution						
water	17.5	2.3	-	92.258	12.3	-
Library Binding Beads						
water	17.5	2.3	-	92.258	12.3	-
Capture Beads						
water	17.5	2.3	_	92.258	12.3	-
Avida Index Primer Pairs 1-96 for ILM						
water	17.5	2.3	-	92.258	12.3	-
Avida Index Primer Pairs 97-192 for ILM						
water	17.5	2.3	-	92.258	12.3	-

Relative vapor density

		ï		
Nuclease-Free Water			0.62	[Air = 1]
End Prep Buffer			Not a	vailable.
End Prep Enzyme			Not a	vailable.
Ligation Buffer			Not a	vailable.
Ligation Enzyme			Not a	vailable.
Adapter for ILM			Not a	vailable.
Hyb Blocker			Not a	vailable.
Hyb Buffer			Not a	vailable.
Hyb Enhancer			Not a	vailable.
Soft Conversion Read	jent A		Not a	vailable.
2X Amplification Mast	ermix		Not a	vailable.
2X Methyl Amplification	nix	Not a	vailable.	
Library Wash Buffer			Not a	vailable.
Hyb Wash Buffer 1			Not a	vailable.
Hyb Wash Buffer 2			Not a	vailable.
Resuspension Buffer			Not a	vailable.
Soft Conversion Read	jent B		Not a	vailable.
Soft Conversion Bindi				vailable.
5X Soft Conversion W	/ash Buffe	r	Not a	vailable.
Soft Conversion Elution	on Buffer		Not a	vailable.
Soft Conversion Repa	ir Solution		Not a	vailable.
Library Binding Beads	;		Not a	vailable.
Capture Beads			Not a	vailable.

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Avida Index Primer Pairs 1-96 for Not available.

ILM

Avida Index Primer Pairs 97-192 Not available.

for ILM

Relative density : Nuclease-Free Water 1

End Prep Buffer Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Amplification Mastermix Not available. 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Resuspension Buffer Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer Not available. Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Avida Index Primer Pairs 1-96 for Not available.

Avida Index Primer Pairs 97-192

for ILM

Solubility(ies)

Media Result Nuclease-Free Water water Soluble **End Prep Buffer** Soluble water End Prep Enzyme water Soluble Ligation Buffer water Soluble **Ligation Enzyme** Soluble water Adapter for ILM Soluble water Hyb Blocker Soluble water **Hyb Buffer** water Soluble Hyb Enhancer water Soluble Soft Conversion Reagent A Soluble 2X Methyl Amplification Mastermix Soluble Library Wash Buffer Soluble water Hyb Wash Buffer 1 water Soluble Hyb Wash Buffer 2

Not available.

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water	Soluble
Resuspension Buffer	Columbia
water	Soluble
Soft Conversion Reagent B	Ooluble
water	Soluble
Soft Conversion Binding Beads	Ooluble
water	Soluble
5X Soft Conversion Wash Buffer	Soluble
	Calubla
water	Soluble
Soft Conversion Elution Buffer	Calubla
water	Soluble
Soft Conversion Repair Solution	O - I - I -
water	Soluble
Library Binding Beads	
water	Soluble
Capture Beads	
water	Soluble
Avida Index Primer Pairs 1-96 for ILM	
water	Soluble
Avida Index Primer Pairs 97-192 for ILM	
water	Soluble
	•

Partition coefficient: noctanol/water

: Nuclease-Free Water -1.38**End Prep Buffer** Not applicable. Not applicable. End Prep Enzyme Ligation Buffer Not applicable. Not applicable. Ligation Enzyme Adapter for ILM Not applicable. Hyb Blocker Not applicable. Not applicable. Hyb Buffer Hyb Enhancer Not applicable. Soft Conversion Reagent A Not applicable. 2X Amplification Mastermix Not applicable. 2X Methyl Amplification Mastermix Not applicable. Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Resuspension Buffer Not applicable. Soft Conversion Reagent B Not applicable. Soft Conversion Binding Beads Not applicable. 5X Soft Conversion Wash Buffer Not applicable. Not applicable. Soft Conversion Elution Buffer Not applicable. Soft Conversion Repair Solution Not applicable. **Library Binding Beads** Capture Beads Not applicable. Avida Index Primer Pairs 1-96 for Not applicable. Not applicable. Avida Index Primer Pairs 97-192 for ILM

Auto-ignition temperature

: Nuclease-Free Water Not applicable. 2X Methyl Amplification Mastermix 215°C (419°F)

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Section 9. Physical and chemical properties and safety characteristics

Ingredient name	°C	°F	Method
End Prep Enzyme			
Glycerol	370	698	-
Ligation Enzyme			
Glycerol	370	698	-
Hyb Enhancer			
Formamide	>500	>932	ASTM D 2155-66
Soft Conversion Reagent A			
tetrahydro-2-furylmethanol	282	539.6	-
2X Amplification Mastermix			
Glycerol	370	698	-
Soft Conversion Binding Beads			
Ethanol	455	851	DIN 51794

Decomposition temperature:

Nuclease-Free Water	Not available.
End Prep Buffer	Not available.
End Prep Enzyme	Not available.
Ligation Buffer	Not available.
Ligation Enzyme	Not available.
Adapter for ILM	Not available.
Hyb Blocker	Not available.
Hyb Buffer	Not available.
Hyb Enhancer	Not available.
Soft Conversion Reagent A	Not available.
2X Amplification Mastermix	Not available.
2X Methyl Amplification Mastermi	x Not available.
Library Wash Buffer	Not available.
Hyb Wash Buffer 1	Not available.
Hyb Wash Buffer 2	Not available.
Resuspension Buffer	Not available.
Soft Conversion Reagent B	Not available.
Soft Conversion Binding Beads	Not available.
5X Soft Conversion Wash Buffer	Not available.
Soft Conversion Elution Buffer	Not available.
Soft Conversion Repair Solution	Not available.
Library Binding Beads	Not available.
Capture Beads	Not available.
Avida Index Primer Pairs 1-96 for	Not available.
ILM	
Avida Index Primer Pairs 97-192	Not available.
for ILM	

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Section 9. Physical and chemical properties and safety characteristics

Viscosity

: Nuclease-Free Water Not available. **End Prep Buffer** Not available. End Prep Enzyme Not available. Ligation Buffer Not available. Ligation Enzyme Not available. Adapter for ILM Not available. Hyb Blocker Not available. Hyb Buffer Not available. Hyb Enhancer Not available. Soft Conversion Reagent A Not available. 2X Amplification Mastermix Not available. 2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available. Hyb Wash Buffer 2 Not available. Resuspension Buffer Not available. Soft Conversion Reagent B Not available. Soft Conversion Binding Beads Not available. 5X Soft Conversion Wash Buffer Not available. Soft Conversion Elution Buffer Not available. Soft Conversion Repair Solution Not available. Library Binding Beads Not available. Capture Beads Not available. Avida Index Primer Pairs 1-96 for Not available. ILMAvida Index Primer Pairs 97-192 Not available. for ILM

Particle characteristics Median particle size

: Nuclease-Free Water Not applicable. End Prep Buffer Not applicable. End Prep Enzyme Not applicable. Ligation Buffer Not applicable. Ligation Enzyme Not applicable. Adapter for ILM Not applicable. Hyb Blocker Not applicable. Hyb Buffer Not applicable. Hyb Enhancer Not applicable. Soft Conversion Reagent A Not applicable. Not applicable. 2X Amplification Mastermix Not applicable. 2X Methyl Amplification Mastermix Not applicable. Library Wash Buffer Hyb Wash Buffer 1 Not applicable. Hyb Wash Buffer 2 Not applicable. Resuspension Buffer Not applicable. Not applicable. Soft Conversion Reagent B Soft Conversion Binding Beads Not applicable. 5X Soft Conversion Wash Buffer Not applicable. Soft Conversion Elution Buffer Not applicable. Soft Conversion Repair Solution Not applicable. Library Binding Beads Not applicable. Capture Beads Not applicable. Avida Index Primer Pairs 1-96 for Not applicable. Avida Index Primer Pairs 97-192 Not applicable.

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for ILM

10.1 Reactivity

for this product or its ingredients.

End Prep Buffer No specific test data related to reactivity available

for this product or its ingredients.

End Prep Enzyme No specific test data related to reactivity available

for this product or its ingredients.

Ligation Buffer No specific test data related to reactivity available

for this product or its ingredients.

Ligation Enzyme No specific test data related to reactivity available

for this product or its ingredients.

Adapter for ILM No specific test data related to reactivity available

for this product or its ingredients.

Hyb Blocker No specific test data related to reactivity available

for this product or its ingredients.

Hyb Buffer No specific test data related to reactivity available

for this product or its ingredients.

Hyb Enhancer No specific test data related to reactivity available

for this product or its ingredients.

Soft Conversion Reagent A No specific test data related to reactivity available

for this product or its ingredients.

for this product or its ingredients.

2X Methyl Amplification Mastermix No specific test data related to reactivity available

for this product or its ingredients.

Library Wash Buffer No specific test data related to reactivity available

for this product or its ingredients.

Hyb Wash Buffer 1 No specific test data related to reactivity available

for this product or its ingredients.

Hyb Wash Buffer 2 No specific test data related to reactivity available for this product or its ingredients.

No specific test data related to reactivity available

for this product or its ingredients.

No specific test data related to reactivity available

for this product or its ingredients.

Soft Conversion Binding Beads

No specific test data related to reactivity available

No specific test data related to reactivity available for this product or its ingredients.

5X Soft Conversion Wash Buffer No specific test data related to reactivity available

for this product or its ingredients.

Soft Conversion Elution Buffer No specific test data related to reactivity available

for this product or its ingredients.

Soft Conversion Repair Solution
No specific test data related to reactivity available

for this product or its ingredients.

Library Binding Beads No specific test data related to reactivity available

for this product or its ingredients.

Capture Beads No specific test data related to reactivity available

for this product or its ingredients.

Avida Index Primer Pairs 1-96 for

Avida Index Primer Pairs 97-192

Resuspension Buffer

Soft Conversion Reagent B

ILN

for ILM

-96 for No specific test data related to reactivity available

for this product or its ingredients.

No specific test data related to reactivity available

for this product or its ingredients.

10.2 Chemical stability

Nuclease-Free Water The product is stable. End Prep Buffer The product is stable. End Prep Enzyme The product is stable. Ligation Buffer The product is stable. Ligation Enzyme The product is stable. Adapter for ILM The product is stable. Hyb Blocker The product is stable. Hyb Buffer The product is stable.

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for ILM

Section 10. Stability and reactivity

Hyb Enhancer The product is stable. Soft Conversion Reagent A The product is stable. 2X Amplification Mastermix The product is stable. The product is stable. 2X Methyl Amplification Mastermix Library Wash Buffer The product is stable. Hyb Wash Buffer 1 The product is stable. Hyb Wash Buffer 2 The product is stable. The product is stable. Resuspension Buffer Soft Conversion Reagent B The product is stable. Soft Conversion Binding Beads The product is stable. 5X Soft Conversion Wash Buffer The product is stable. Soft Conversion Elution Buffer The product is stable. The product is stable. Soft Conversion Repair Solution The product is stable. Library Binding Beads The product is stable. Capture Beads Avida Index Primer Pairs 1-96 for The product is stable. Avida Index Primer Pairs 97-192 The product is stable.

10.3 Possibility of hazardous reactions

: Nuclease-Free Water Under normal conditions of storage and use,

hazardous reactions will not occur.

End Prep Buffer Under normal conditions of storage and use,

hazardous reactions will not occur.

End Prep Enzyme Under normal conditions of storage and use,

hazardous reactions will not occur.

Ligation Buffer Under normal conditions of storage and use,

hazardous reactions will not occur.

Ligation Enzyme Under normal conditions of storage and use,

hazardous reactions will not occur.

Adapter for ILM Under normal conditions of storage and use,

hazardous reactions will not occur.

Hyb Blocker Under normal conditions of storage and use,

hazardous reactions will not occur.

Hyb Buffer Under normal conditions of storage and use,

hazardous reactions will not occur.

Hyb Enhancer Under normal conditions of storage and use,

hazardous reactions will not occur.

Soft Conversion Reagent A Under normal conditions of storage and use,

hazardous reactions will not occur.

2X Amplification Mastermix Under normal conditions of storage and use,

hazardous reactions will not occur.

2X Methyl Amplification Mastermix Under normal conditions of storage and use,

hazardous reactions will not occur.

Library Wash Buffer Under normal conditions of storage and use,

hazardous reactions will not occur.

Hyb Wash Buffer 1 Under normal conditions of storage and use,

hazardous reactions will not occur.

Hyb Wash Buffer 2 Under normal conditions of storage and use,

hazardous reactions will not occur.

Resuspension Buffer Under normal conditions of storage and use.

hazardous reactions will not occur.

Soft Conversion Reagent B Under normal conditions of storage and use,

hazardous reactions will not occur.

Soft Conversion Binding Beads Under normal conditions of storage and use,

hazardous reactions will not occur.

5X Soft Conversion Wash Buffer Under normal conditions of storage and use,

hazardous reactions will not occur.

Soft Conversion Elution Buffer Under normal conditions of storage and use,

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hazardous reactions will not occur. Soft Conversion Repair Solution

Under normal conditions of storage and use,

hazardous reactions will not occur. Library Binding Beads Under normal conditions of storage and use,

hazardous reactions will not occur.

Capture Beads Under normal conditions of storage and use,

hazardous reactions will not occur.

Avida Index Primer Pairs 1-96 for

Avida Index Primer Pairs 97-192

for ILM

Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use,

hazardous reactions will not occur.

10.4 Conditions to avoid

: Nuclease-Free Water No specific data. **End Prep Buffer** No specific data. End Prep Enzyme No specific data. Ligation Buffer No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data. Hyb Blocker No specific data. Hvb Buffer No specific data. Hyb Enhancer No specific data.

Soft Conversion Reagent A Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder,

drill, grind or expose containers to heat or sources

of ignition.

No specific data. 2X Amplification Mastermix 2X Methyl Amplification Mastermix No specific data. Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. No specific data. Hyb Wash Buffer 2 Resuspension Buffer No specific data. Soft Conversion Reagent B No specific data.

Avoid all possible sources of ignition (spark or Soft Conversion Binding Beads

> flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources

of ignition.

5X Soft Conversion Wash Buffer No specific data. Soft Conversion Elution Buffer No specific data. Soft Conversion Repair Solution No specific data. Library Binding Beads No specific data. Capture Beads No specific data.

Avida Index Primer Pairs 1-96 for

Avida Index Primer Pairs 97-192

for ILM

No specific data.

No specific data.

10.5 Incompatible materials

: Nuclease-Free Water May react or be incompatible with oxidizing

materials.

End Prep Buffer May react or be incompatible with oxidizing

End Prep Enzyme May react or be incompatible with oxidizing

materials.

Ligation Buffer May react or be incompatible with oxidizing

materials.

Ligation Enzyme May react or be incompatible with oxidizing

materials.

May react or be incompatible with oxidizing Adapter for ILM

May react or be incompatible with oxidizing Hyb Blocker

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Hyb Buffer materials.

Hyb Buffer May react or be incompatible with oxidizing

materials

Hyb Enhancer May react or be incompatible with oxidizing

materials.

Soft Conversion Reagent A Reactive or incompatible with the following

materials:

oxidizing materials

2X Amplification Mastermix May react or be incompatible with oxidizing

materials.

2X Methyl Amplification Mastermix May react or be incompatible with oxidizing

materials.

Library Wash Buffer May react or be incompatible with oxidizing

materials.

Hyb Wash Buffer 1 May react or be incompatible with oxidizing

materials.

Hyb Wash Buffer 2 May react or be incompatible with oxidizing

materials.

Resuspension Buffer May react or be incompatible with oxidizing

materials.

Soft Conversion Reagent B May react or be incompatible with oxidizing

materials.

Soft Conversion Binding Beads Reactive or incompatible with the following

materials:

oxidizing materials

5X Soft Conversion Wash Buffer May react or be incompatible with oxidizing

naterials.

Soft Conversion Elution Buffer Reactive or incompatible with the following

materials:

acids

Soft Conversion Repair Solution May react or be incompatible with oxidizing

materials.

Library Binding Beads May react or be incompatible with oxidizing

materials.

Capture Beads May react or be incompatible with oxidizing

materials.

Avida Index Primer Pairs 1-96 for

ILN

May react or be incompatible with oxidizing

materials.

Avida Index Primer Pairs 97-192

for ILM

May react or be incompatible with oxidizing

materials.

10.6 Hazardous decomposition products

: Nuclease-Free Water Under normal conditions of storage and use,

hazardous decomposition products should not be

produced

End Prep Buffer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

End Prep Enzyme Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Ligation Buffer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Ligation Enzyme Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Adapter for ILM Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Hyb Blocker Under normal conditions of storage and use,

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hazardous decomposition products should not be

produced.

Hyb Buffer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Hyb Enhancer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Soft Conversion Reagent A Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

2X Amplification Mastermix Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

2X Methyl Amplification Mastermix Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Library Wash Buffer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Hyb Wash Buffer 1 Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Hyb Wash Buffer 2 Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Resuspension Buffer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Soft Conversion Reagent B Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Soft Conversion Binding Beads Under normal conditions of storage and use,

hazardous decomposition products should not be

produced

5X Soft Conversion Wash Buffer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Soft Conversion Elution Buffer Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Soft Conversion Repair Solution Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Library Binding Beads Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Capture Beads Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Avida Index Primer Pairs 1-96 for

ILM

Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Avida Index Primer Pairs 97-192

for ILM

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

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11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
End Prep Buffer Magnesium chloride	LD50 Dermal	Rat - Male,	>2000 mg/kg	-
	LD50 Oral	Female Rat	2800 mg/kg	-
End Prep Enzyme Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Ligation Enzyme Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Hyb Buffer tetramethylammonium chloride Dextran sulfate sodium Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	LD50 Dermal LD50 Oral LD50 Oral LD50 Oral	Rabbit - Male, Female Rat Rat Rat	200 to 500 mg/kg 50 mg/kg 20600 mg/kg 2800 mg/kg	- - -
Hyb Enhancer Formamide	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat - Male Rabbit Rat	>21 mg/l 17 g/kg 5570 mg/kg	4 hours - -
2X Amplification Mastermix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Hyb Wash Buffer 1 Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
Hyb Wash Buffer 2 Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	LD50 Oral	Rat	2800 mg/kg	-
Soft Conversion Binding Beads				
Ethanol Guanidinium thiocyanate	LC50 Inhalation Vapor LD50 Oral LC50 Inhalation Dusts and mists LD50 Oral	Rat Rat Rat - Female Rat - Male, Female	124700 mg/m³ 7 g/kg 3.181 mg/l 593 mg/kg	4 hours - 4 hours -
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	LD50 Oral	Rat	2800 mg/kg	-

Irritation/Corrosion

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Product/ingredient name	Result	Species	Score	Exposure	Observation
End Prep Enzyme	Even Mild imiter t	Dobb#		24 have 500	
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Ligation Enzyme	From Mild invitant	Dahkit		04 haves 500	
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Hyb Buffer Poly(oxy-1,2-ethanediyl), .	Eyes - Severe irritant	Rabbit		1 %	_
alpha[Lyes - Severe irritant	Nabbit	-	1 70	
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-					
Soft Conversion Reagent A tetrahydro-2-furylmethanol	Eyes - Moderate irritant	Rabbit	_	24 hours 20	_
tou arry are 2 rary in realiance	Lyos modorato imani			mg	
2X Amplification Mastermix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit	_	mg 24 hours 500	_
				mg	
Hyb Wash Buffer 1					
Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit Rabbit	-	250 ug	-
	Eyes - Moderate irritant Eyes - Moderate irritant	Rabbit	-	10 mg 24 hours 100	-
	Skin - Mild irritant	Guinea pig		mg 24 hours 25	_
		, ,		mg	
	Skin - Mild irritant	Rabbit	-	24 hours 50 mg	-
	Skin - Moderate irritant	Mouse	-	24 hours 25	-
	Skin - Moderate irritant	Rabbit	_	mg 24 hours 25	_
				mg	
Hyb Wash Buffer 2					
Poly(oxy-1,2-ethanediyl), . alpha[Eyes - Severe irritant	Rabbit	-	1 %	-
(1,1,3,3-tetramethylbutyl)					
phenyl]omegahydroxy-					
Soft Conversion Binding					
Beads Ethanol	Eyes - Mild irritant	Rabbit	_	24 hours 500	_
				mg	
	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100	-
	Francis Mandaust Southers	Dakky		mg	
Poly(oxy-1,2-ethanediyl), .	Eyes - Moderate irritant Eyes - Severe irritant	Rabbit Rabbit	-	100 uL 1 %	-
alpha[

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(1,1,3,3-tetramethylbutyl)			
phenyl]omegahydroxy-			

Sensitization

Not available.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Soft Conversion Binding Beads			
Ethanol	-	1	-

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Hyb Buffer			
tetramethylammonium chloride	Category 1	oral	central nervous system (CNS)
Dextran sulfate sodium	Category 3	-	Respiratory tract irritation
Hyb Wash Buffer 1 Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Hyb Enhancer			
Formamide	Category 2	oral	blood

Aspiration hazard

Not available.

Information on the likely routes of exposure

: Nuclease-Free Water Not available.

End Prep Buffer Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

End Prep Enzyme Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

Ligation Buffer Not available.

Ligation Enzyme Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

Adapter for ILM Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

Hyb Blocker Not available.

Hyb Buffer Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

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2X Amplification Mastermix

Section 11. Toxicological information

Hyb Enhancer Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

Soft Conversion Reagent A Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes. Not available.

2X Methyl Amplification Mastermix Not available. Library Wash Buffer Not available. Hyb Wash Buffer 1 Not available.

Hyb Wash Buffer 1 Not available.
Hyb Wash Buffer 2 Not available.
Resuspension Buffer Not available.

Soft Conversion Reagent B Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

Soft Conversion Binding Beads Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

5X Soft Conversion Wash Buffer Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

Soft Conversion Elution Buffer Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

Soft Conversion Repair Solution Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

Library Binding Beads
Capture Beads
Avida Index Primer Pairs 1-96 for
Not available.
Not available.

ILM

Avida Index Primer Pairs 97-192

for ILM

Not available.

Potential acute health effects

Eye contact

Nuclease-Free Water

End Prep Buffer

End Prep Enzyme

Ligation Buffer

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Causes eye irritation.

No known significant effects or critical hazards.

Ligation Enzyme No known significant effects of childal hazards Causes eye irritation.

Adapter for ILM

No known significant effects or critical hazards.

Hyb Blocker

No known significant effects or critical hazards.

Hyb Buffer

No known significant effects or critical hazards.

Hyb Enhancer

No known significant effects or critical hazards.

Soft Conversion Reagent A Causes serious eye irritation.

2X Amplification Mastermix
2X Methyl Amplification Mastermix
Library Wash Buffer
Hyb Wash Buffer 1
No known significant effects or critical hazards.

Resuspension Buffer

No known significant effects or critical hazards.

Soft Conversion Reagent B

Causes serious eye irritation.

Soft Conversion Binding Beads

5X Soft Conversion Wash Buffer

Causes serious eye damage.

No known significant effects of

(Soft Conversion Wash Buffer No known significant effects or critical hazards.

Soft Conversion Elution Buffer Causes serious eye damage.

Soft Conversion Repair Solution
Library Binding Beads
Capture Beads
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Avida Index Primer Pairs 1-96 for No known significant effects or critical hazards.

Avida Index Primer Pairs 97-192 No known significant effects or critical hazards. for ILM

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Inhalation

: Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer

Hyb Enhancer Soft Conversion Reagent A 2X Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for

Avida Index Primer Pairs 97-192

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

Corrosive to the respiratory system.

Causes damage to organs following a single

exposure if inhaled.

Skin contact

Nuclease-Free Water End Prep Buffer End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer

for ILM

Hyb Enhancer Soft Conversion Reagent A 2X Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for

Avida Index Primer Pairs 97-192

for ILM

No known significant effects or critical hazards. Causes damage to organs following a single exposure in contact with skin. Causes skin

No known significant effects or critical hazards. Causes severe burns.

No known significant effects or critical hazards. Causes severe burns.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

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Ingestion

: Nuclease-Free Water No known significant effects or critical hazards. **End Prep Buffer** No known significant effects or critical hazards. End Prep Enzyme No known significant effects or critical hazards. Ligation Buffer No known significant effects or critical hazards. Ligation Enzyme No known significant effects or critical hazards. Adapter for ILM No known significant effects or critical hazards. Hyb Blocker No known significant effects or critical hazards. Hyb Buffer Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.

Hyb Enhancer
Soft Conversion Reagent A
2X Amplification Mastermix
2X Methyl Amplification Mastermix
Library Wash Buffer
Hyb Wash Buffer
No known significant effects or critical hazards.

Hyb Wash Buffer 1

Hyb Wash Buffer 2

Resuspension Buffer

Soft Conversion Reagent B

Soft Conversion Binding Beads

No known significant effects or critical hazards.

Corrosive to the digestive tract. Causes burns.

Soft Conversion Wash Buffer
Soft Conversion Elution Buffer
Soft Conversion Repair Solution
Library Binding Beads

Conture Reads

Capture Beads No known significant effects or critical hazards. Avida Index Primer Pairs 1-96 for No known significant effects or critical hazards.

Avida Index Primer Pairs 97-192 No known significant effects or critical hazards. for ILM

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: Nuclease-Free Water No specific data. End Prep Buffer No specific data.

End Prep Enzyme Adverse symptoms may include the following:

irritation watering redness

Ligation Buffer No specific data.

Ligation Enzyme Adverse symptoms may include the following:

irritation watering redness

Adapter for ILM No specific data. Hyb Blocker No specific data.

Hyb Buffer Adverse symptoms may include the following:

pain or irritation

watering redness

Hyb Enhancer No specific data.

Soft Conversion Reagent A Adverse symptoms may include the following:

pain or irritation watering

redness

2X Amplification Mastermix
2X Methyl Amplification Mastermix
Library Wash Buffer

No specific data.
No specific data.

Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. Resuspension Buffer No specific data.

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Soft Conversion Reagent B Adverse symptoms may include the following:

> pain or irritation watering

redness

Soft Conversion Binding Beads Adverse symptoms may include the following:

> pain watering redness

5X Soft Conversion Wash Buffer No specific data.

Soft Conversion Elution Buffer Adverse symptoms may include the following:

> pain watering redness

No specific data.

Soft Conversion Repair Solution

Library Binding Beads

No specific data. Capture Beads No specific data. Avida Index Primer Pairs 1-96 for No specific data.

ILM

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for II M

No specific data.

Nuclease-Free Water No specific data. End Prep Buffer No specific data. End Prep Enzyme No specific data. **Ligation Buffer** No specific data. Ligation Enzyme No specific data. Adapter for ILM No specific data. Hyb Blocker No specific data. Hyb Buffer No specific data.

Hyb Enhancer Adverse symptoms may include the following:

> reduced fetal weight increase in fetal deaths skeletal malformations

Adverse symptoms may include the following: Soft Conversion Reagent A

> reduced fetal weight increase in fetal deaths skeletal malformations

2X Amplification Mastermix No specific data. 2X Methyl Amplification Mastermix No specific data. Library Wash Buffer No specific data. Hyb Wash Buffer 1 No specific data. Hyb Wash Buffer 2 No specific data. Resuspension Buffer No specific data. Soft Conversion Reagent B No specific data.

Adverse symptoms may include the following: Soft Conversion Binding Beads

respiratory tract irritation

coughing

5X Soft Conversion Wash Buffer No specific data. Soft Conversion Elution Buffer No specific data. Soft Conversion Repair Solution No specific data. Library Binding Beads No specific data. Capture Beads No specific data.

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Avida Index Primer Pairs 1-96 for

for ILM

No specific data.

No specific data.

Inhalation

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SI				

: Nuclease-Free Water
End Prep Buffer
End Prep Enzyme
Ligation Buffer
No specific data.

Hyb Buffer Adverse symptoms may include the following:

irritation redness

Hyb Enhancer Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Soft Conversion Reagent A Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

2X Amplification Mastermix
2X Methyl Amplification Mastermix
Library Wash Buffer
Hyb Wash Buffer 1
Hyb Wash Buffer 2
Resuspension Buffer
Soft Conversion Reagent B
No specific data.
No specific data.
No specific data.
No specific data.

Soft Conversion Binding Beads Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

5X Soft Conversion Wash Buffer No specific data.

Soft Conversion Elution Buffer Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur No specific data. No specific data.

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads

Avida Index Primer Pairs 1-96 for

ILN

Avida Index Primer Pairs 97-192 No spec

for ILM

Hyb Buffer

No specific data.

No specific data.

No specific data.

Nuclease-Free Water

 End Prep Buffer
 End Prep Enzyme
 Ligation Buffer
 Ligation Enzyme
 Adapter for ILM
 Hyb Blocker

 No specific data.

 No specific data.
 No specific data.

 No specific data.
 No specific data.
 No specific data.

Hyb Enhancer Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

No specific data.

Soft Conversion Reagent A Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

2X Amplification Mastermix No specific data. 2X Methyl Amplification Mastermix No specific data.

Ingestion

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Library Wash Buffer No specific data.

Hyb Wash Buffer 1 No specific data.

Hyb Wash Buffer 2 No specific data.

Resuspension Buffer No specific data.

Soft Conversion Reagent B No specific data.

Soft Conversion Binding Beads Adverse symptoms may include the following:

stomach pains

5X Soft Conversion Wash Buffer No specific data.

Soft Conversion Elution Buffer Adverse symptoms may include the following:

stomach pains No specific data.

No specific data.

No specific data.

Soft Conversion Repair Solution

Library Binding Beads

Capture Beads Avida Index Primer Pairs 1-96 for

LM

Avida Index Primer Pairs 97-192

for ILM

No specific data.

No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects: Not available.

Potential chronic health effects

General : Nuclease-Free Water

End Prep Buffer
End Prep Enzyme
Ligation Buffer
Ligation Enzyme
Adapter for ILM
Hyb Blocker
Hyb Buffer
Hyb Enhancer

No known significant effects or critical hazards.

May cause damage to organs through prolonged or

No known significant effects or critical hazards.

No known significant effects or critical hazards.

repeated exposure.

Soft Conversion Reagent A 2X Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer

Hyb Wash Buffer 1
Hyb Wash Buffer 2
Resuspension Buffer
Soft Conversion Reagent B
Soft Conversion Binding Beads
5X Soft Conversion Wash Buffer
Soft Conversion Elution Buffer
Soft Conversion Repair Solution

Library Binding Beads Capture Beads

Avida Index Primer Pairs 1-96 for

ILM

Avida Index Primer Pairs 97-192

for ILM

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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Carcinogenicity

: Nuclease-Free Water **End Prep Buffer** End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hvb Buffer Hyb Enhancer

Soft Conversion Reagent A 2X Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for

Avida Index Primer Pairs 97-192 for ILM

Nuclease-Free Water **End Prep Buffer** End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hvb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Amplification Mastermix

2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution

Library Binding Beads Capture Beads

Avida Index Primer Pairs 1-96 for

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for ILM

No known significant effects or critical hazards. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

Mutagenicity

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Reproductive toxicity

: Nuclease-Free Water **End Prep Buffer** End Prep Enzyme Ligation Buffer Ligation Enzyme Adapter for ILM Hyb Blocker Hyb Buffer Hyb Enhancer Soft Conversion Reagent A 2X Amplification Mastermix 2X Methyl Amplification Mastermix Library Wash Buffer Hyb Wash Buffer 1 Hyb Wash Buffer 2 Resuspension Buffer Soft Conversion Reagent B Soft Conversion Binding Beads 5X Soft Conversion Wash Buffer Soft Conversion Elution Buffer Soft Conversion Repair Solution Library Binding Beads Capture Beads Avida Index Primer Pairs 1-96 for Avida Index Primer Pairs 97-192 for ILM

No known significant effects or critical hazards. May damage fertility or the unborn child. May damage fertility or the unborn child. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
End Prep Buffer End Prep Buffer Magnesium chloride	229323.3 2800	204752.9 2500	N/A N/A	N/A N/A	N/A N/A
End Prep Enzyme Glycerol	12600	N/A	N/A	N/A	N/A
Ligation Enzyme Glycerol	12600	N/A	N/A	N/A	N/A
Hyb Buffer Hyb Buffer tetramethylammonium chloride Dextran sulfate sodium Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	450.2 50 20600 500	2737.2 300 N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A
Hyb Enhancer Formamide	5570	17000	N/A	N/A	N/A
2X Amplification Mastermix Glycerol	12600	N/A	N/A	N/A	N/A
Library Wash Buffer					

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Library Wash Buffer	37635.4	N/A	N/A	N/A	N/A
Hyb Wash Buffer 1 Hyb Wash Buffer 1 Sodium dodecyl sulphate	171428.6 1288	N/A N/A	N/A N/A	N/A N/A	N/A 1.5
Hyb Wash Buffer 2 Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	500	N/A	N/A	N/A	N/A
Soft Conversion Binding Beads Soft Conversion Binding Beads Ethanol Guanidinium thiocyanate Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	2299.0 7000 593 500	5782.2 N/A 1100 N/A	N/A N/A N/A N/A	N/A 124.7 N/A N/A	16.7 N/A 3.181 N/A
Library Binding Beads Library Binding Beads	17855.8	N/A	N/A	N/A	N/A

Other information : End Prep Buffer

Adverse symptoms may include the following: May

cause skin sensitization.

Adapter for ILM

Adverse symptoms may include the following: May

cause skin sensitization.

Hyb Enhancer Adverse symptoms may include the following: May

cause eye irritation. May cause skin irritation.

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
End Prep Buffer			
Magnesium chloride	Acute EC50 >100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 180000 μg/l Fresh water	Crustaceans - Eudiaptomus padanus ssp. padanus - Adult	48 hours
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - Lemna aequinoctialis	96 hours
	Acute LC50 32000 μg/l Fresh water	Daphnia - <i>Daphnia hyalina</i> - Adult	48 hours
	Acute LC50 2120 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute NOEC 100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 0.1 mg/l Fresh water	Fish - Cyprinus carpio	35 days
End Prep Enzyme Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ligation Enzyme Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Hyb Buffer tetramethylammonium	Acute LC50 462 mg/l Fresh water	Fish - Pimephales promelas	96 hours
chloride Poly(oxy-1,2-ethanediyl), . alpha[Acute EC50 210 μg/l Fresh water	Algae - Selenastrum sp.	96 hours
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-			

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	Acute LC50 10800 μg/l Marine water	Crustaceans - Pandalus montagui	48 hours
		- Adult	
	Acute LC50 2.518 mg/l Fresh water Acute LC50 7200 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> Fish - <i>Oncorhynchus mykiss</i>	48 hours 96 hours
	Acute 2000 7200 μg/11 Testi water	1 Ish - Oncomynends mykiss	30 110013
Hyb Enhancer	4 5050 500 45		70.1
Formamide	Acute EC50 >500 mg/l Fresh water Acute EC50 >500 mg/l Fresh water	Algae Daphnia	72 hours 48 hours
	Acute LC50 6569 mg/l Fresh water	Fish	96 hours
	Acute NOEC 4640 mg/l Fresh water	Algae	72 hours
	Acute NOEC 4640 mg/l Fresh water	Fish	96 hours
Soft Conversion Reagent A			
tetrahydro-2-furylmethanol	Acute EC50 >98.9 mg/l	Algae	72 hours
	Acute EC50 >91.7 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 >101 mg/l	Fish	96 hours
2X Amplification Mastermix			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Llyb Wook Buffor 4			
Hyb Wash Buffer 1 Sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
Social in dodecyl sulphate	Acute LC50 900 µg/l Marine water	Crustaceans - Artemia salina -	48 hours
	/ touto 2000 000 µg// Marino Water	Adult	To floar
	Acute LC50 1400 μg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 590 μg/l Fresh water	Fish - <i>Cirrhinus mrigala</i> - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - <i>Ulva fasciata</i> - Zoea	96 hours
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 0.8 mg/l Fresh water	Fish - <i>Gambusia holbrooki</i>	28 days
Hyb Wash Buffer 2			
Poly(oxy-1,2-ethanediyl), .	Acute EC50 210 μg/l Fresh water	Algae - Selenastrum sp.	96 hours
alpha[
(1,1,3,3-tetramethylbutyl)			
phenyl]omegahydroxy-	Acute LC50 10800 µg/l Marine water	Crustaceans - <i>Pandalus montagui</i>	48 hours
		- Adult	To nouro
	Acute LC50 2.518 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 7200 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Soft Conversion Binding			
Beads			001
Ethanol	Acute EC50 3306 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 1074 mg/l Fresh water Acute EC50 2 mg/l Fresh water	Crustaceans - Cypris subglobosa Daphnia - Daphnia magna	48 hours 48 hours
	Acute EC50 2 flight Fresh water Acute LC50 11000000 µg/l Marine water	Fish - Alburnus alburnus	96 hours
	Chronic NOEC 4.995 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
Poly(oxy-1,2-ethanediyl), .	Acute EC50 210 μg/l Fresh water	Algae - Selenastrum sp.	96 hours
alpha[(1,1,3,3-tetramethylbutyl)			
phenyl]omegahydroxy-	Acute LC50 10800 µg/l Marine water	Crustaceans - Pandalus montagui	48 hours
	Aguto I C50 2 519 mall Eroch water	- Adult	10 hours
	Acute LC50 2.518 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours

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Acute LC50 7200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
----------------------------------	----------------------------	----------

12.2 Persistence and degradability

tetramethylammonium

chloride

Hyb Enhancer Formamide

Product/ingredient name	Test	Result		Dose		Inoculum
End Prep Enzyme Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days		-		-
Ligation Enzyme Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days		-		-
Hyb Enhancer Formamide	OECD 301A Ready Biodegradability - DOC Die-Away Test	99 % - Rea	dily - 28 days	-		-
Soft Conversion Reagent A tetrahydro-2-furylmethanol	-	92 % - Readily - 28 days		-		-
2X Amplification Mastermix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days		-		-
Hyb Wash Buffer 1 Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	95 % - Readily - 28 days		20 mg/l		-
Soft Conversion Binding Beads						
Guanidinium thiocyanate	OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	46 % - Inherent - 28 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability	
Nuclease-Free Water water	-	-			Readily	-
Hyb Buffer					Poodily	

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Readily

Readily

Soft Conversion Reagent A tetrahydro-2-furylmethanol	-	-	Readily
Hyb Wash Buffer 1 Sodium dodecyl sulphate	-	-	Readily
Soft Conversion Binding Beads Ethanol Guanidinium thiocyanate	- -	-	Readily Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Nuclease-Free Water	4.00		
water	-1.38	-	Low
End Prep Enzyme Glycerol	-1.76	-	Low
Ligation Enzyme Glycerol	-1.76	-	Low
Hyb Buffer tetramethylammonium chloride	<-1.6	-	Low
Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl)	2.7	78.67	Low
phenyl]omegahydroxy-			
Hyb Enhancer Formamide	-0.82	-	Low
Soft Conversion Reagent A tetrahydro-2-furylmethanol	0.722	-	Low
2X Amplification Mastermix Glycerol	-1.76	-	Low
Hyb Wash Buffer 1 Sodium dodecyl sulphate	-2.03	-	Low
Hyb Wash Buffer 2 Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	2.7	78.67	Low
Soft Conversion Binding Beads Ethanol Guanidinium thiocyanate Poly(oxy-1,2-ethanediyl), . alpha[(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-	-0.35 <-1.7 2.7	0.5 - 78.67	Low Low Low

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12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

12.5 Other adverse effects: No known significant effects or critical hazards.

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	UN3316	UN3316	UN3316	UN3316	UN3316
UN proper shipping name	Chemical kit	CHEMICAL KIT	EQUIPO QUIMICO	CHEMICAL KIT	Chemical kit
Transport hazard class(es)	9	9	9	9	9
Packing group	II	II	II	II	II
Environmental hazards	No.	No.	No.	No.	No.

Additional information

Remarks: Excepted Quantity

DOT Classification

: Limited quantity Yes.

<u>Packaging instruction</u> Exceptions: 161. Non-bulk: 161. Bulk: None. <u>Quantity limitation</u> Passenger aircraft/rail: 10 kg. Cargo aircraft: 10 kg.

Special provisions 15

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Section 14. Transport information

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous

Goods Regulations: 2.43-2.45 (Class 9). Passenger Carrying Road or Rail Index 10

Special provisions 65, 141

Mexico Classification : Special provisions 251, 340

IMDG : **Emergency schedules** F-A, S-P Special provisions 251, 340

IATA : Quantity limitation Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960.

Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger

Aircraft: 1 kg. Packaging instructions: Y960.

Special provisions A44, A163

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according: Not available.

to IMO instruments

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations : TSCA 5(a)2 proposed significant new use rules: Nonylphenol, ethoxylated

TSCA 8(a) PAIR: Formamide; Poly(oxy-1,2-ethanediyl), .alpha.-[

(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-; Nonylphenol, ethoxylated;

Polyoxyethylene octyl phenyl ether

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 311: ammonium hydrogensulphite; Sodium hydroxide; Edetic

acid

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)** Not listed

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

Class II Substances

: Not listed

DEA List I Chemicals

: Not listed

(Precursor Chemicals) **DEA List II Chemicals**

: Not listed

(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

			SARA 302 TPQ SARA 304 RQ		RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Soft Conversion Binding Beads Sodium azide	<0.1	Yes.	500	-	1000	-
Capture Beads Sodium azide	<0.1	Yes.	500	-	1000	-

SARA 304 RQ : 94696969.7 lbs / 42992424.2 kg

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Section 15. Regulatory information

SARA 311/312

Classification

Nuclease-Free Water Not applicable. **End Prep Buffer** Not applicable.

End Prep Enzyme EYE IRRITATION - Category 2B

Ligation Buffer Not applicable:

Ligation Enzyme EYE IRRITATION - Category 2B

Adapter for ILM Not applicable. Hyb Blocker Not applicable

Hyb Buffer ACUTE TOXICITY (oral) - Category 4

SKIN IRRITATION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -

Category 1

CARCINOGENICITY - Category 2 Hyb Enhancer

TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) - Category 2

Soft Conversion Reagent A FLAMMABLE LIQUIDS - Category 4

EYE IRRITATION - Category 2A

TOXIC TO REPRODUCTION - Category 1B

2X Amplification Mastermix Not applicable. 2X Methyl Amplification Mastermix Not applicable. Not applicable. Library Wash Buffer Not applicable. Hyb Wash Buffer 1 Hyb Wash Buffer 2 Not applicable. Resuspension Buffer Not applicable.

EYE IRRITATION - Category 2A Soft Conversion Reagent B FLAMMABLE LIQUIDS - Category 3 Soft Conversion Binding Beads SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to respiratory tract

5X Soft Conversion Wash Buffer Not applicable.

Soft Conversion Elution Buffer SKIN CORROSION - Category 1

SERIOUS EYE DAMAGE - Category 1

Soft Conversion Repair Solution Not applicable. Library Binding Beads Not applicable. Capture Beads Not applicable. Avida Index Primer Pairs 1-96 for ILM Not applicable. Avida Index Primer Pairs 97-192 for ILM Not applicable.

Composition/information on ingredients

Name	%	Classification
End Prep Enzyme Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B
Ligation Enzyme Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B
Hyb Buffer tetramethylammonium chloride Dextran sulfate sodium	≥10 - <15 ≤3	ACUTE TOXICITY (oral) - Category 2 ACUTE TOXICITY (dermal) - Category 3 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
Hyb Enhancer Formamide	≥90	irritation) - Category 3 CARCINOGENICITY - Category 2
	230	TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Soft Conversion Reagent A tetrahydro-2-furylmethanol	≥90	FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 1B
2X Amplification Mastermix Glycerol	<10	EYE IRRITATION - Category 2B

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Section 15. Regulatory information

Soft Conversion Reagent B ammonium hydrogensulphite	≥50 - ≤75	EYE IRRITATION - Category 2A
Soft Conversion Binding Beads		
Ethanol	≥50 - ≤75	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A HNOC - Defatting irritant
Guanidinium thiocyanate	≥10 - ≤21	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to digestive tract HNOC - Corrosive to respiratory tract
Poly(oxy-1,2-ethanediyl), .alpha [(1,1,3,3-tetramethylbutyl)phenyl] omegahydroxy-	≤6.5	ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Soft Conversion Reagent B ammonium hydrogensulphite	10192-30-0	≥50 - ≤75
Supplier notification	Hyb Enhancer Formamide	75-12-7	≥90
	Soft Conversion Reagent B ammonium hydrogensulphite	10192-30-0	≥50 - ≤75

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: GLYCERINE MIST; TETRAHYDROFURFURYL

ALCOHOL; FORMAMIDE; AMMONIUM BISULFITE; ETHYL ALCOHOL

New York : The following components are listed: Ammonium bisulfite

New Jersey : The following components are listed: GLYCERIN; FORMAMIDE; AMMONIUM

BISULFITE; ETHYL ALCOHOL

Pennsylvania : The following components are listed: 1,2,3-PROPANETRIOL; 2-FURANMETHANOL,

TETRAHYDRO-; FORMAMIDE; SULFUROUS ACID, MONOAMMONIUM SALT;

ETHANOL

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

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Section 15. Regulatory information

Not listed.

Inventory list

Australia : Not determined.
Canada : Not determined.
China : Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : Not determined. **Philippines** : Not determined. Republic of Korea : Not determined. Taiwan : Not determined. **Thailand** : Not determined. **Turkey** : Not determined. **United States** : Not determined. **Viet Nam** : Not determined.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
End Prep Buffer AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method
End Prep Enzyme EYE IRRITATION - Category 2B	Calculation method
Ligation Enzyme EYE IRRITATION - Category 2B	Calculation method
Hyb Buffer ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method Calculation method Calculation method Calculation method
Hyb Enhancer CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method Calculation method Calculation method
Soft Conversion Reagent A FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 1B	On basis of test data Calculation method Calculation method
Soft Conversion Reagent B EYE IRRITATION - Category 2A	Calculation method
Soft Conversion Binding Beads FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2	On basis of test data Calculation method Calculation method Calculation method Calculation method

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Section 16. Other information

Soft Conversion Elution Buffer

SKIN CORROSION - Category 1

On basis of test data
SERIOUS EYE DAMAGE - Category 1

On basis of test data

History

Date of issue/Date of

revision

Date of previous issue : 02/26/2024

Version

Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

Indicates information that has changed from previously issued version.

: 04/08/2024

: 1.1

Notice to reader

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